

# 10 Days Asia Pacific QuickShip Catalog



## QuickShip

Fast, reliable production and shipment services to suit your need.



# Table of Contents

Page Series	Page Series	Page Series
03 040	43 553	82 YB
04 110	44 342 SS FR	84 617
05 202 Posiflow	45 L172/L176	85 501
06 210	46 L182/L282	86 503
08 214	48 L182 BIG	87 G3
09 215	49 L282 BIG	88 580
10 220	50 L372/L376	89 651/652
11 223	51 VCEF&VCEV Installation	92 PRA
12 238	52 202 Preciflow	93 TRB
13 256	54 IPC 202	94 ITS
14 262/263	55 082&X082	95 MNI
16 291	56 284	96 KHZ
17 292	57 384	97 RTC-BV
18 353	58 S104	98 AV03-AV05
19 353K	59 S305	
20 290	60 D351	
22 S290	61 385	
24 290 Proportional	62 RB	
26 356	65 81	
27 314	66 73	
28 316	67 D	
30 320	69 T	
31 327	72 X189	
34 362/562	73 190	
35 HV293734	74 521	
36 342	75 HV434441	
37 344	76 C	
38 345	77 HV434442	
39 531	78 J3	
40 551	80 YA	



Our 10-day shipping program is changing its name from Express to QuickShip Everyday. Emerson's QuickShip Everyday program provides market-leading production and shipment services ensuring fast, convenient, and reliable delivery.

# ASCO™ Gas Shutoff Valves

Normally closed, 1/8" to 1 1/4" NPT

2/2  
Series  
040

## Features

- 2-way normally closed for shutoff
- For gas pilot or main control of commercial and industrial gas burners
- Valves provided with 1/8" NPT upstream and downstream pipe taps with plugs for routine testing
- Mountable in any position



## Standard Voltages

AC (~): 24V/60Hz<sup>(2)</sup>, 110V/50Hz, 120V/60Hz, 220V/50Hz, 240V/60Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Cv Flow Factor	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)		Max. Fluid Temp. (°C)	Prefix			No Prefix	Catalog Number
				Min.	Max		SC	EF/VCEF <sup>(1)</sup>	L		
NPT											
<b>Combustion (Fuel Gas) - Normally Closed</b>											
1/8	8	1	0.9	0	1	52	●	●	●	●	8040H006
1/4	8	1	0.9	0	1	52	●	●	●	●	8040H007
3/8	8	1.2	1.0	0	1	52	●	●	●	●	8040H008
3/8	19	3.9	3.3	0	0.1	52	●	●	●	●	8040G021
1/2	19	5.4	4.6	0	0.1	52	●	●	●	●	8040G022
3/4	19	9.5	8.1	0	0.1	52	●	●	●	●	8040G023
1	41	16.8	14.3	0	0.03	52	●	●	●	●	8040C004

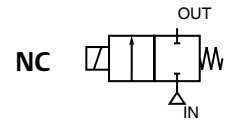
● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(2) Only for 8040C004

# ASCO™ Solenoid Valves

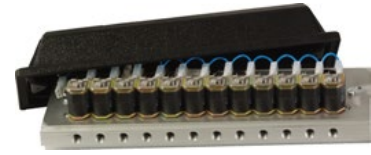
Containing 2 to 12 valves, 2/2 normally closed, direct operated, 1/8"



**2/2**  
Series  
**110**

## Features

- Compact pilot boxes with direct operated, integrated pilot valves
- Especially designed for the remote control of pulse valves (series 353)
- Valve seats are integrated in base plate
- Common exhaust connection for just 1 or 2 (G 3/8) silencers
- Built-in heating elements for trouble free operation at low ambient temperatures
- Degree of protection: IP65
- Facilities for integrated quick fittings



## Standard Voltages

DC (=) : 24V

AC (~) : 115V-230V/50-60Hz

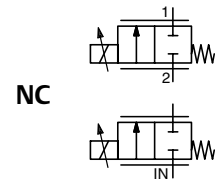
## Specifications

Number of Pilot Valves	Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Catalog Number for the Boxes <sup>(1)</sup>
					Min.	Maximum (PS)	
						G	(mm)
2	1/8	3.6	0.35	5.8	0	8.5	SG110A020
3							SG110A030
4							SG110A040
5							SG110A050
6							SG110A060
7							SG110A070
8							SG110A080
9							SG110A090
10							SG110A100
11							SG110A110
12							SG110A120

(1) Minimum ambient temperature without heating elements: 0°C

# ASCO™ Proportional Solenoid Valves

Posiflow, direct operated, 1/8" - 1/4"



2/2  
Series  
202

## Features

- Variable flow, proportional to the control signal
- Better flow regulation performance
- Stainless Steel Valve body available to handle varied media like de-ionized water, special coolant flow Novec (3M) and Galden (Solvey), Hydrogen and etc
- Direct acting valves which do not require a minimum operating pressure
- Valves can be mounted in any position



## Standard Voltages

DC (=) : 0-24V

## Specifications

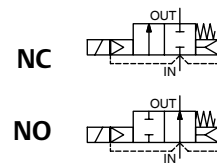
Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)				Power Coil	Prefix		Catalog Number				Option			
			Min.	Max. PS				SC	PV	Brass		Stainless Steel		EPDM	CR	PTFE	
				Vacuum	Air	Water				Oil	Air/Inert Gas	Liquids	Air/Inert Gas				Liquids
<b>Normally Closed</b>																	
1/4	2.4	0.12	0	1	8	8	8	8	●	●	G202A002V	-	-	-	E	J	T
1/4	2.4	0.12	0	1	8	8	8	8	●	-	-	G202A052V	-	-	E	J	T
1/4	4	0.42	0	1	2.5	2.5	2.5	8	●	●	G202A004V	-	-	-	E	J	T
1/4	4	0.42	0	1	2.5	2.5	2.5	8	●	-	-	G202A054V	-	-	E	J	T
1/4	5.6	0.72	0	1	1.4	1.4	1.4	8	●	●	G202A006V	-	-	-	E	J	T
1/4	5.6	0.72	0	1	1.4	1.4	1.4	8	●	-	-	G202A056V	-	-	E	J	T
1/8	1.2	0.05	0	1	8	5	5	6.3	●	-	-	-	-	❖202A205V	E	-	T
1/8	1.6	0.07	0	1	6	4	4	6.3	●	-	-	-	-	❖202A206V	E	-	T
1/8	2.4	0.13	0	1	4	3	3	6.3	●	-	-	-	-	❖202A207V	E	-	T
1/8	3.2	0.18	0	1	2.5	2.5	2.5	6.3	●	-	-	-	-	❖202A208V	E	-	T

● Available Express

❖ Stands for options of "J" for Rc port thread, "G" for G port thread

# ASCO™ Solenoid Valves

Pilot operated, hung diaphragm, brass or stainless steel bodies, 3/8" - 2"



2/2  
Series  
210

## Features

- Two way shut-off valves for the control air, inert gas, water, oil and other gases/liquids compatible with the sealing material used
- Valves do not require a minimum operating pressure
- All products are covered by Pressure Equipment Directive 97/23/EC and are suitable for group 1 and 2 fluids
- The solenoid valves satisfy all relevant EC directives



## Standard Voltages

DC (=) : 24V; 125V(HC)  
 AC (~) : VC, EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 SC, NF, WP, PV 115V/50Hz; 120V/60Hz; 230V/50Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)						Prefix								No Prefix	Catalog Number		Option				
				Min.	Max. (PS)			SC	EF/VC/VCEF <sup>(3)</sup>	NF/NFET	WSNF/WSNFET	JKF/JKH	HT	HB	HC	WP	Brass		Stainless Steel	FPM	EPDM	Maintained Man. Operator			
					~	=	~																=	~	=
NC - Normally closed																									
3/8	16	2.6	43	0.3	14	9	10	7	9	7	●	●	-	-	●	●	-	-	●	8210G001	-	V	-	-	
3/8	16	2.6	43	0.35	14	9	10	7	9	7	●	-	●	-	-	-	-	-	●	❖210D001	-	V	-	-	
3/8	16	2.6	43	0	10	3	10	3	-	-	●	●	-	-	●	●	-	●	-	8210G093	-	V	-	-	
3/8	16	2.6	43	0	9	3	9	3	-	-	●	-	●	-	●	-	-	●	-	❖210C093	-	V	-	-	
1/2	11	1.9	32	0	10	3	9	3	-	-	●	●	-	-	●	●	-	-	●	8210G015	-	V	-	-	
1/2	11	1.9	32	0	10	3	9	3	-	-	●	●	-	-	●	●	-	-	●	-	8210G037	V	E	-	
1/2	16	3.1	52	0.3	17	-	-	-	-	-	-	●	-	-	-	-	-	-	●	8210G106B	-	-	-	-	
1/2	16	3.4	57	0	9	3	9	3	-	-	●	-	●	-	●	-	-	●	-	❖210C094	-	V	-	MO/MB	
1/2	16	3.4	57	0	10	3	10	3	-	-	●	●	-	-	●	●	-	●	-	8210G094 <sup>(5)</sup>	-	V	-	-	
1/2	16	3.4	57	0.3	14	9	10	7	9	7	●	●	-	-	●	●	-	-	●	8210G002	-	V	-	-	
1/2	16	3.4	57	0.35	14	9	10	7	9	7	●	-	●	-	●	-	-	●	-	❖210D002 <sup>(5)</sup>	-	V	-	MB	
1/2	16	3.4	57	0.3	21	-	21	-	21	-	●	●	-	-	-	-	●	-	●	8210G007	-	V	-	-	
1/2	16	3.4	57	0.35	20	-	20	-	20	-	●	-	●	-	-	-	●	-	●	❖210C007	-	V	-	-	
1/2	19	3.4	57	0.3	-	-	21	21	-	-	●	●	-	-	-	-	-	-	●	8210G227	-	-	-	-	
1/2	16	3.4	57	0	10	3	10	3	9	-	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	-	-	●	-	8210G087	V	-	-	
1/2	16	3.4	57	0	9	3	9	3	9	-	●	-	●	●	-	-	●	-	●	❖210C087	V	E	-	-	
3/4	16	3.9	65	0	10	3	10	3	9	-	●	●	-	-	● <sup>(1)</sup>	● <sup>(1)</sup>	● <sup>(1)</sup>	-	●	-	8210G088	V	E	-	-
3/4	16	3.9	65	0	9	3	9	3	9	-	●	-	●	●	-	-	●	-	●	-	❖210C088	V	-	MO	
3/4	19	4.3	72	0	10	3	10	3	-	-	●	●	-	-	●	●	-	●	-	8210G095	-	V	-	-	
3/4	19	4.3	72	0	9	3	9	3	-	-	●	-	●	-	●	-	-	●	-	❖210D095	-	V	E	MO	
3/4	19	4.3	72	0.3	9	7	9	6	9	5	●	●	-	-	●	●	-	-	●	8210G009 <sup>(5)</sup>	-	V	E	-	
3/4	19	4.3	72	0.35	9	7	9	6	9	5	●	-	●	-	-	-	-	-	●	❖210D009	-	V	-	-	
3/4	19	5.6	93	0.35	17	9	10	9	10	9	-	-	●	-	-	-	-	-	●	❖210D003	-	-	-	-	
1	25	11	183	0	10	-	9	-	9	-	● <sup>(8)</sup>	● <sup>(8)</sup>	-	-	● <sup>(8)</sup>	● <sup>(8)</sup>	-	-	●	8210G054 <sup>(2)(6)</sup>	-	V	-	-	
1	25	11	183	0.3	10	9	10	9	7	9	●	●	-	-	●	-	-	-	●	8210G004	-	V	-	-	
1	25	11.1	185	0.35	9	9	9	9	9	9	●	-	●	●	-	-	●	-	●	❖210D004	-	V	-	-	
1	25	11	183	0	10	-	9	-	9	-	●	-	●	-	-	-	-	-	●	❖210B154	-	V	-	-	
1	25	11	183	0	10	-	9	-	9	-	●	●	-	-	-	-	-	-	●	-	8210G089 <sup>(2)</sup>	V	E	-	
1	25	11	183	0	10	7	9	7	9	6	●	-	●	●	-	-	●	-	●	-	❖210D189	V	-	-	
1	25	11.6	193	0.7	20	16	20	16	20	14	-	-	●	-	-	-	●	-	●	❖210B078	-	V	-	-	

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

Specifications

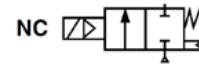
Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)												No Prefix	Catalog Number		Option								
				Min.	Max. (PS)						Prefix								FPM	EPDM	Maintained Man. Operator						
					Air		Water		Oil		SC	EF/VC/ VCEF <sup>(5)</sup>	NF/ NFET	WSNF/ WSNFET	JKF JKH							HT	HB	HC	WP	Brass	Stainless Steel
					~	=	~	=	~	=																	
(mm)	(m³/h)	(l/min)																									
1 1/4	28	12.8	213	0	9	6	9	6	9	6	●	-	●	-	-	-	-	●	-	♣210B155	-	V	-	-			
1 1/4	29	13	216	0.3	10	9	10	9	7	9	●	●	-	-	●	●	-	-	●	-	8210G008	-	V	-	-		
1 1/4	28	12.8	213	0	9	9	9	9	9	9	●	-	●	-	-	-	-	●	-	E210D008	-	V	-	-			
1 1/2	32	19.5	325	0	10	-	9	-	9	-	●	●	-	-	-	●	-	-	●	-	8210G056 <sup>(2)</sup>	-	V	-	-		
1 1/2	32	19.5	325	0	10	7	9	7	9	6	●	-	●	-	-	-	-	●	-	♣210B156	-	V	-	-			
1 1/2	32	19.5	325	0.3	10	9	10	9	7	9	●	●	-	-	●	●	-	-	●	-	8210G022	-	V	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	●	-	●	-	-	●	-	-	●	-	♣210D022	-	V	-	-		
1 1/2	32	19.3	322	0.7	20	16	20	14	20	14	●	-	●	-	-	●	-	-	●	-	♣210B082	-	V	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	●	-	●	●	-	●	-	-	●	-	-	♣210A127	V	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	●	●	-	-	●	●	-	-	●	-	-	♣210G127	V	-	-		
2	44	37	617	0.35	9	3	9	3	6	3	●	-	●	-	-	●	-	-	●	-	♣210-100	-	V	-	-		
2	44	37	617	0.3	10	6	9	3	3	3	●	-	●	●	-	●	-	-	●	-	-	♣210A129	-	-	-		
2	44	37	617	0.3	10	6	9	3	3	3	●	●	-	-	●	●	-	-	●	-	8210G100	♣210G129	V	-	-		
<b>Gas shut-off - Normally closed</b>																											
3/8	16	2.4	40	0	3.4	-	-	-	-	-	●	●	-	-	● <sup>(8)</sup>	● <sup>(8)</sup>	-	-	●	-	8210G074 <sup>(6)</sup>	-	-	-	-		
1/2	16	3.1	52	0	3.4	-	-	-	-	-	●	●	-	-	● <sup>(8)</sup>	●	-	-	●	-	8210G075	-	-	-	-		
3/4	16	4.3	72	0	3.4	-	-	-	-	-	●	●	-	-	● <sup>(8)</sup>	●	-	-	●	-	8210G076	-	-	-	-		
<b>NO - Normally open</b>																											
1/2	16	3.4	57	0	10	9	10	9	9	6	●	●	-	-	●	●	-	●	-	●	-	8210G034	-	V	-	-	
1/2	16	3.4	57	0	9	9	9	9	9	5	●	-	●	-	-	●	-	-	●	-	♣210C034	-	V	-	-		
1/2	16	2.6	43	0	10	9	10	9	7	6	-	●	●	●	-	●	-	-	●	-	-	♣210B030	V	-	-		
3/4	16	2.6	43	0	10	9	10	9	7	6	●	●	-	-	●	●	-	-	●	-	-	8210G038	V	-	-		
3/4	16	2.6	43	0	10	9	10	9	7	6	-	-	●	-	●	●	-	-	●	-	-	♣210B038	V	-	-		
3/4	19	4.7	79	0	10	9	0	9	9	6	●	●	-	-	●	●	-	●	-	●	-	8210G035	-	V	-	-	
3/4	19	4.7	79	0	10	9	10	9	9	6	●	-	●	-	-	●	-	-	●	-	♣210C035	-	V	-	-		
1	25	11.2	185	0	9	-	9	-	9	-	●	-	●	-	-	-	●	-	●	-	♣210B057	-	-	-	-		
1	25	11.1	185	0.35	9	9	9	9	9	9	●	-	●	-	-	-	-	●	-	-	8210D014	-	-	-	-		
1	25	11	185	0.3	10	-	10	-	9	-	-	●	-	-	-	●	-	-	●	-	8210G014 <sup>(2)(6)(7)</sup>	-	-	-	-		
1 1/2	32	19.5	325	0.3	10	-	10	-	9	-	●	●	-	-	-	-	-	-	●	-	8210G032 <sup>(2)</sup>	-	-	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	-	-	● <sup>(1)</sup>	-	-	-	-	-	-	-	B210D032	-	-	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	●	●	-	-	●	●	-	-	●	●	-	♣210G132	V	-	-		
1 1/2	32	19.3	322	0.35	9	9	9	9	9	9	●	-	●	-	●	●	-	-	●	-	-	♣210A132	V	-	-		
2	44	37	617	0.3	10	6	9	3	3	3	●	●	-	-	●	●	-	-	●	-	-	♣210G133	V	-	-		
2	44	37	617	0.3	10	6	9	3	3	3	●	-	●	●	-	●	-	-	●	-	-	♣210A133	V	-	-		

- Available Express
- (1) DC only
- (2) In case of AC, the standard voltage will be 110V/50 Hz; 120V/60 Hz; 220V/50 Hz; 240V/60 Hz
- (3) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"
- (4) 0.3 bar on Air; 0.0 bar on Water
- (5) Additional Express model: 8210G094HW, ♣210D002MO, 8210G009MO, 8210G009HW & 8210G034VM.
- (6) TPL 24047 also available
- (7) TPL 24062 also available
- (8) AC only
- ♣ Stands for options of "B or 8" for NPT port thread, "E" for Rp port thread, "G" for G port thread

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

High flow low pressure, aluminum body



2/2  
Series  
214

## Features

- Unique double disc design with overtravel provides redundant sealing for leak tight shutoff
- For on-off control of fuel gas in commercial and industrial gas burners
- 1/8" NPT pipe taps with plugs for routine testing
- Optional flange adapters for ease of installation and service



## Standard Voltages

DC (=) : 24V

AC (~) : 220V/50Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Cv Flow Factor	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)			Max. Fluid Temp. °C		Prefix		No Prefix	Catalog Number
				Min.	Max. AC	Max. DC	AC	DC	EF/VCEF <sup>(1)</sup>	HT		Aluminum Body
					Air-Fuel Gas	Air-Fuel Gas						
<b>Normally Closed (Closed when de-energized)</b>												
3/4	41	11	9.4	0	0.34	0.34	52	52	● <sup>(2)</sup>	-	●	8214G236
1	41	21	18	0	0.34	0.34	52	52	● <sup>(2)</sup>	-	●	8214G251

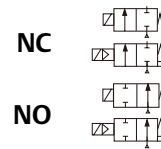
● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(2) Available option: TPL 24062 for IECEx/ATEX certification

# ASCO™ Solenoid Valves

High flow low pressure, aluminum body, 3/8" - 3"



2/2  
Series  
215

## Features

- Zero differential piloted diaphragm
- Ideal for low pressure applications
- Provides high flow, Cv up to 138 (Kv 118)
- Lightweight, low power valves for on-off control of fuel gas in commercial and industrial gas burners



## Standard Voltages

DC (=) : 24V  
AC (~) : 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Cv Flow Factor	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)			Max. Fluid Temp. °C		Prefix			No Prefix	Catalog Number
				Min.	Max. AC Air-Fuel Gas	Max. DC Air-Fuel Gas	AC	DC	SC	EF/VCEF <sup>(2)</sup>	HT		Aluminum Body
<b>Normally Closed (Closed when de-energized)</b>													
3/8	19	3.4	2.9	0	3.4	1.7	52	40	●	● <sup>(3)</sup>	●	●	8215G010
1/2	19	4.4	3.8	0	3.4	1.7	52	40	●	● <sup>(3)</sup>	●	●	8215G020
3/4	19	5.1	4.4	0	3.4	1.7	52	40	●	● <sup>(3)</sup>	●	●	8215G030
1	41	21	18	0	0.34	0.34	52	40	●	● <sup>(4)</sup>	●	●	X8215G050 <sup>(1)(6)</sup>
1 1/4	41	32	27	0	0.34	0.34	52	40	●	● <sup>(4)</sup>	●	●	X8215G060 <sup>(1)(6)</sup>
1 1/2	53	60	51	0	0.34	0.34	52	40	●	● <sup>(4)</sup>	●	●	X8215G070 <sup>(1)(6)</sup>
2	53	51	51	0	0.34	0.34	52	40	●	● <sup>(4)</sup>	●	●	X8215G080 <sup>(1)(6)</sup>
2 1/2	76	117	100	0	0.34	-	52	-		● <sup>(5)</sup>	●	●	X8215A090 <sup>(6)</sup>
3	76	138	118	0	0.34	-	52	-		● <sup>(5)</sup>	●	●	X8215A040 <sup>(6)</sup>
<b>Normally Open (Open when de-energized)</b>													
1/2	19	4	3.4	0	8.6	8.6	52	40	●	● <sup>(3)</sup>	●	●	8215G023
3/4	19	4.6	3.9	0	8.6	8.6	52	40	●	● <sup>(3)</sup>	●	●	8215G033
1 1/2	41	37	32	0	1.7	1	52	40	●	● <sup>(4)</sup>	-	●	8215G073 <sup>(1)</sup>

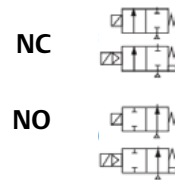
● Available Express

- (1) In case of AC, the standard voltage will be 220V/50 Hz  
 (2) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"  
 (3) Available option: TPL 24047 for KOSHA certification, TPL 24062 for IECEx/ATEX certification, TPL 24072 for TS certification  
 (4) Available option: TPL 24062 for IECEx/ATEX certification  
 (5) Only prefix "EF" and without "X" can be express  
 (6) TPL 24080 for double disc seal

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Hot Water and Steam Valves

Brass or stainless steel bodies, 1/8" - 2 1/2" NPT



**2/2**  
Series  
**220**

## Features

- Hot water service to 210 psi differential @ 210°F;  
Steam service to 125 psi differential @ 353°F
- Specify these valves for the high-temperature applications found in laundries, molding, steam atomization, sterilizers, autoclaves, and many others
- Pilot operated diaphragm valves
- Pilot operated diaphragm and piston valves; floating PTFE diaphragms or stainless steel pistons with EPDM or PTFE discs, available in both AC & DC voltages



## Standard Voltages

AC (~) : 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)				Max. Fluid Temp. °C				Prefix			No Prefix	Catalog Number	
			Min.	Max. AC		Max. DC		AC		DC		EF/VCEF <sup>(1)</sup>	JKH			SU/MSU
				Steam	Hot Water	Steam	Hot Water	Steam	Hot Water	Steam	Hot Water					
<b>Steam/Hot water service - Pilot operated - Normally closed (Closed when de-energized)</b>																
1/2	16	4	0.3	9	10	-	-	177	98	-	-	●	●	●	●	8220G021
1	25	11.57	0.3	9	10.3	-	-	178	99	-	-	●	●	●	●	8220G025
1/2	12.7	4	0.3	9	10.3	7.6	10.3	178	99	172	99	●	●	●	●	8220G406 <sup>(2)(3)</sup>
3/4	19.0	7.5	0.3	9	10.3	7.6	10.3	178	99	172	99	●	●	●	●	8220G409 <sup>(3)</sup>

● Available Express

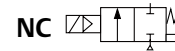
(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(2) TPL 24047 also available

(3) Ambient temperature range 0°C - 60°C

# ASCO™ Solenoid Valves

High pressure, brass or stainless steel bodies, 1/4" - 3/4"



2/2  
Series  
223

## Features

- Rugged piston construction built to withstand pressure ratings to 1500 psi
- Angle body design for high flows
- Ideal for high-pressure water applications, such as car washes
- Mountable in any position



## Standard Voltages

DC (=) : 24V  
 AC (~) : VC, EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 SC, NF 115V/50Hz; 120V/60 Hz; 230V/50Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)							Max. Fluid Temp. °C		Prefix						Catalog Number	
			Min.	Max. AC			Max. DC			AC	DC	SC	VC	EF/VCEF <sup>(1)</sup>	NF/NFET	HB	No Prefix	Brass	Stainless Steel
				Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU										
<b>NC - Normally closed (Closed when de-energized)</b>																			
3/8	8	1.3	0.7	52	52	52	28	28	28	93	65	-	-	●	-	-	●	8223G023	-
1/2	10	2.7	1.7	103	103	103	34	34	34	93	65	-	●	●	-	●	●	8223G003	-
1/2	9	2.7	1.8	100	100	100	35	35	35	90	90	-	-	-	●	-	-	-	B223A010
1/2	10	2.7	1.7	103	103	103	34	34	34	93	65	●	●	●	-	●	●	-	8223G010
3/4	19	6.7	1.8	50	50	50	20	20	20	90	90	-	-	-	●	-	-	B223B005	-
3/4	19	6.7	1.7	52	52	52	31	31	31	93	65	●	-	-	-	-	●	8223G005	-
3/4	19	6.7	1.8	50	50	50	20	20	20	90	90	-	-	-	●	-	-	-	B223A012
3/4	19	6.7	1.7	52	52	52	31	31	31	93	65	-	-	●	-	-	●	-	8223G012

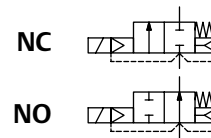
● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Solenoid Valves

Pilot operated, floating diaphragm, brass body, 3/8" - 2"



2/2  
Series  
238

## Features

- Minimum operating pressure differential  $\Delta P$  0.3/0.5 bar
- Two way valves for automatic control of water, air and inert gas and other gases/liquids compatible with the sealing materials used
- Interchangeability of magnetic heads, AC and DC
- The solenoid valves satisfy all relevant EC Directives



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)			Power Coil (W)		Prefix	Catalog Number		Option		
				Min.	Max. (PS)		~	=		SC	Brass	Stainless Steel	Maintained Man.Operator	Seal
					~	=								
G	(mm)	(m <sup>3</sup> /h)	(l/min)											
<b>NC - Normally closed</b>														
3/8	12.5	2.1	35	0	10	10	6	15.3	●	G238A044 <sup>(1)</sup>	-	-	V	
1/2	12.5	2.1	35	0	10	10	6	15.3	●	G238A046 <sup>(1)</sup>	-	-	V	
3/4	19	4.5	75	0	10	10	6	15.3	●	G238A048 <sup>(1)</sup>	-	-	V	
1	25	10	166	0	10	10	9	15.3	●	G238A050 <sup>(1)</sup>	-	-	V	
3/8	12	2.4	40	0.3	10	10	4	6.9	●	E238D001	-	-	V	
3/8	13.5	2.5	41.7	0.35	12	12	4	6.9	●	-	G238D101V	MO	E	
1/2	12	2.4	40	0.3	10	10	4	6.9	●	E238D002	-	-	V	
1/2	13.5	3.8	63.3	0.35	12	12	4	6.9	●	-	G238D102V	MO	E	
1/2	15	4.2	70	0.3	10	10	4	6.9	●	E238D003	-	-	V	
3/4	20	6.6	110	0.3	10	10	4	6.9	●	E238D004	-	-	V	
3/4	18	5	83.3	0.35	10	10	4	6.9	●	-	G238D103V	MO	E	
1	25	9.9	165	0.3	10	10	4	6.9	●	E238D005	-	-	V	
1	24	12	200	0.35	10	10	4	6.9	●	-	G238D104V	MO	E	
3/8	12	2.4	40	0.3	16	16	5	6.9	●	E238D006	-	-	V	
1/2	12	2.4	40	0.3	16	16	5	6.9	●	E238D007	-	-	V	
1/2	15	4.2	70	0.3	16	16	5	6.9	●	E238D008	-	-	V	
3/4	20	6.6	110	0.3	16	16	5	6.9	●	E238D009	-	-	V	
1	25	9.9	165	0.3	16	16	5	6.9	●	E238D010	-	-	V	
1 1/4	30	15	250	0.5	10	10	8	9	●	G238F016 <sup>(2)</sup>	-	-	V	
1 1/2	45	27	450	0.5	10	10	8	9	●	G238F017 <sup>(2)</sup>	-	-	V	
2	45	34	566	0.5	10	10	8	9	●	G238F018 <sup>(2)</sup>	-	-	V	
<b>NO - Normally open</b>														
3/8	13.5	2.5	41.7	0.35	12	12	4	6.9	●	-	G238D105V	MO	E	
1/2	13.5	3.8	63.3	0.35	12	12	4	6.9	●	-	G238D106V	MO	E	
3/4	18	5	83.3	0.35	10	10	4	6.9	●	-	G238D107V	MO	E	
1	24	12	200	0.35	10	10	4	6.9	●	-	G238D108V	MO	E	
1 1/4	30	15	250	0.5	10	10	12.5	9	●	G238E019 <sup>(2)</sup>	-	-	-	
1 1/2	45	27	450	0.5	9	9	12.5	9	●	G238E020 <sup>(2)</sup>	-	-	-	
2	45	34	566	0.5	9	9	12.5	9	●	G238E021 <sup>(2)</sup>	-	-	-	

● Available Express

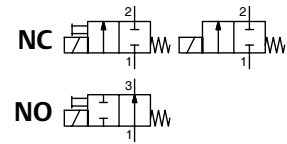
(1) In case of AC, the standard voltage will be 115/50 Hz; 120V/60 Hz; 230V/50 Hz

(2) In case of AC, the standard voltage will be 220V/50 - 240V/60 Hz

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

Direct operated, brass or stainless steel bodies, 1/8" - 1/4"



**2/2**  
Series  
**256**

## Features

- Wide range of flow and pressure ratings
- Quick disassembly of core tube for easy maintenance of internal parts
- Standard disc seal made of FPM suitable for a wide range of operating temperatures and compatible with many fluids
- Standard manual operator allows an easy installation (Except 4 and 5 mm orifice sizes)
- AC/DC interchangeability of the solenoid without disassembly of the valve
- Compact and low weight valve



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)								Power Coil (W)		Prefix			Catalog Number		Options
				Min.	Max. (PS)						Brass						Stainless Steel		
					Air	Water	Oil	~	=	~								=	
G	(mm)	(m <sup>3</sup> /h)	(l/min)		~	=	~	=	~	=	~	=	SC	PV	U	~/=	~/=		
<b>NC - Normally closed</b>																			
1/8	1.2	0.05	0.8	0	28	20	28	20	28	20	4	6.9	●	-	-	G256B001V	-	MS	
1/8	1.6	0.08	1.33	0	20	12	20	12	20	12	4	6.9	●	-	●	-	8256B014V	-	
1/8	1.6	0.08	1.33	0	20	12	20	12	20	12	4	6.9	●	-	-	G256B002V	G256B014V	MS	
1/8	2	0.11	1.83	0	15	6	15	6	15	6	4	6.9	●	-	-	G256B003V	-	-	
1/8	2	0.11	1.83	0	15	6	15	6	15	6	4	6.9	●	-	-	-	G256B015V	MS	
1/8	2.4	0.13	2.16	0	12	4	12	4	12	4	4	6.9	●	-	-	G256B004V	-	-	
1/8	2.4	0.13	2.16	0	12	4	12	4	12	4	4	6.9	●	-	●	-	8256B016V	-	
1/8	2.4	0.13	2.16	0	12	4	12	4	12	4	4	6.9	●	-	-	-	G256B016V	MS	
1/4	1.6	0.08	1.33	0	20	12	20	12	20	12	4	6.9	●	●	-	-	G256A414V <sup>(1)</sup>	-	
1/4	1.6	0.08	1.33	0	20	12	20	12	20	12	4	6.9	●	-	-	-	8256B414V	-	
1/4	1.6	0.08	1.33	0	20	12	20	12	20	12	4	6.9	●	-	-	G256B402V	G256B414V	MS	
1/4	1.6	0.08	1.33	0	20	15	20	15	20	15	5	6.9	●	-	-	G256B466V	-	MS	
1/4	1.6	0.08	1.33	0	20	15	20	15	20	15	5	6.9	●	-	-	-	8256B434V	-	
1/4	1.6	0.08	1.33	0	20	15	20	15	20	15	5	6.9	●	-	-	-	G256B434V	MS	
1/4	2.4	0.16	2.67	0	12	4	12	4	12	4	4	6.9	●	-	-	G256B404V	G256B416V	MS	
1/4	2.4	0.16	2.67	0	15	8	15	8	15	8	5	6.9	●	-	-	G256B470V	G256B436V	MS	

● Available Express

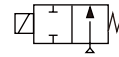
(1) TPL 24071: 256 series with lower rating PV coil 3 watt

10 Days Asia Pacific QuickShip Catalog CT000086ENJUS-07\_05-21

# ASCO™ Solenoid Valves

Direct operated, brass or stainless steel bodies, 1/8" - 3/8"

NO



2/2  
Series  
**262**  
**263**

## Features

- Reliable, proven design with high flows
- Small poppet valves for tight shutoff
- Wide range of elastomers for specialty service
- Mountable in any position
- Brass and stainless steel constructions



## Standard Voltages

DC (=): 24V  
 AC (~): SC, EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 NF, WP 115V/50Hz; 120V/60Hz; 230V/50Hz

## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m³/h)	Operating Pressure Differential (bar)						Max. Fluid Temp °C		Prefix										No Prefix	Catalog Number		Option
			Max AC @ 55°C			Max DC @ 55°C					AC	DC	SC	SU	EF/VC/VCEF <sup>(1)</sup>	NF/NFET	JKF/JKH	HT	WP	L		Brass	Stainless Steel	
			Air-Inert Gas	Water	Lt. Oil @300 SSU	Air-Inert Gas	Water	Lt. Oil @300 SSU																
<b>NC - Normally Closed</b>																								
1/8	2.4	0.18	26	23	13	15	10	10	82	82	-	-	●	-	-	-	-	-	●	8262H014	8262H015	V		
1/8	3.2	0.3	19	18	13	1	8	8	82	82	-	-	●	-	-	-	-	-	●	8262H016	-	-		
1/8	3.2	0.3	11	12	9	5	5	5	90	90	-	-	-	●	-	-	●	-	●	◆262C002 <sup>(2)</sup>	-	-		
1/8	3.2	0.3	13	12	8	8	7	6	82	82	●	●	●	-	-	-	-	●	●	8262H002	8262H006	V		
1/8	3.2	0.3	34	26	24	17	17	16	82	82	-	-	-	-	-	-	-	-	●	-	8262H174	-		
1/4	2.4	0.17	25	25	11	10	8	8	90	90	●	-	-	●	-	●	●	-	-	◆262C020	◆262C086	-		
1/4	3.2	0.3	20	20	13	5.0	4.0	4.0	90	90	-	-	-	●	-	-	●	-	-	◆262D232 <sup>(2)</sup>	-	-		
1/4	3.2	0.3	9	11	6	4	4	4	90	90	●	-	-	●	-	-	●	-	-	◆262C022	◆262C007	-		
1/4	3.2	0.3	13	12	6	8	7	6	82	82	●	●	●	-	●	-	-	●	●	8262H022	8262H007	T/V		
1/4	3.2	0.3	19	18	10	11	8	8	82	82	●	-	●	-	-	-	-	-	●	8262H023	-	-		
1/4	4	0.43	12	13	10	2.5	2.5	3	90	90	-	-	-	●	-	-	●	-	-	◆262C202	-	-		
1/4	4	0.45	14	14	10	-	-	-	82	82	●	-	●	-	●	●	-	-	●	8262H202	-	-		
1/4	4	0.43	12	13	10	2.5	2.5	3	90	90	-	-	-	●	-	●	●	-	-	-	◆262C220	-		
1/4	4	0.45	14	14	10	-	-	-	82	82	●	-	●	-	●	●	-	-	●	-	8262H220	T/V		
1/4	4	0.45	7	7	4	5	4	4	82	82	-	-	●	-	●	-	-	-	●	8262H111	8262H186	V/E/T		
1/4	4	0.45	21	14	14	8	8	8	82	82	-	-	●	-	-	-	-	-	●	8262H112	-	-		
1/4	4	0.45	10	10	7	6	5	5	82	82	-	-	●	-	-	-	-	-	●	8262H113	-	-		
1/4	5.6	0.63	7	7	7	2	2	2	82	82	●	●	●	-	●	●	-	-	●	8262H208	-	-		
1/4	5.6	0.63	6.5	6.5	6.5	1.7	1.7	1.7	90	90	●	-	-	●	-	-	●	-	-	◆262C208 <sup>(2)</sup>	-	-		
1/4	5.6	0.63	9	9	9	4	4	4	82	82	-	-	●	-	-	-	-	-	●	-	8262H188	V		
1/4	5.6	0.62	6.5	6.5	6.5	1.7	1.7	1.7	90	90	-	-	-	●	-	-	●	-	-	◆262C226 <sup>(2)</sup>	-	-		
1/4	5.6	0.63	7	7	7	-	-	-	82	82	-	-	●	-	-	-	-	-	●	-	8262H226	V		
1/4	5.6	0.63	4	4	3	2	2	2	82	82	●	●	●	-	-	-	-	-	●	8262H013	8262H036	V		
1/4	5.6	0.73	2.5	3	2.5	1.2	1.3	1.3	90	90	-	-	-	●	-	-	●	-	-	◆262C036 <sup>(2)</sup>	-	-		
1/4	7.1	0.76	2	2	2	2	2	1	82	82	-	-	●	-	-	-	-	-	●	-	8262H038	V		
1/4	7.1	0.76	4	5	4	2	2	1	82	82	-	-	●	-	-	-	-	-	●	8262H210	-	V		
1/4	7	0.75	6	6.5	6	1.7	1.3	1.3	90	90	-	-	-	●	-	-	●	-	-	◆262B212 <sup>(2)</sup>	-	-		
1/4	7.1	0.76	6	6	6	3	3	3	82	82	-	-	●	-	-	-	-	-	●	8262H212	-	N		
3/8	3.2	0.3	34	26	24	17	19	10	82	82	-	-	●	-	-	-	-	-	●	8263H115	8263H191	T		
3/8	4	0.45	14	13	7	-	-	-	82	82	-	-	-	●	-	-	-	-	●	-	8263H331	-		

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

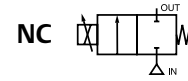
Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m³/h)	Operating Pressure Differential (bar)						Max. Fluid Temp °C		Prefix									No Prefix	Catalog Number		Option
			Max AC @ 55°C			Max DC @ 55°C					AC	DC	SC	SU	EF/VC/VCEF <sup>(1)</sup>	NF/NFET	JKF/JKH	HT	WP		L	Brass	
			Air-Inert Gas	Water	Lt. Oil @300 SSU	Air-Inert Gas	Water	Lt. Oil @300 SSU															
<b>NO - Normally Open</b>																							
1/8	2.4	0.18	19	16	12	11	9	7	82	82	-	-	●	-	-	-	-	-	●	8262H128	8262H236	-	
1/8	3.2	0.3	11	10	9	7	7	5	82	82	-	-	●	-	-	-	-	-	-	-	8262H237	V	
1/4	1.2	0.05	52	52	52	45	39	28	82	82	●	-	●	-	●	●	-	-	●	❖262H260	-	-	
1/4	2.4	0.17	20	17	16	13	10	8	40	40	-	-	-	●	-	-	●	-	-	-	❖262A134	-	
1/4	2.4	0.18	19	16	12	11	9	7	82	82	●	-	●	-	●	●	-	-	●	❖262H261 <sup>(2)</sup>	-	V	
1/4	2.4	0.18	24	21	19	16	13	11	75	82	-	-	●	-	-	-	-	-	●	-	8262H205	-	
1/4	3.2	0.3	14	13	12	9	8	7	75	82	-	-	●	-	-	-	-	-	●	-	8262H219	-	
1/4	3.2	0.3	9	7	6.5	5.5	4	4	90	90	-	-	-	●	-	-	●	-	-	-	❖262A138 <sup>(2)</sup>	-	
1/4	3.2	0.3	11	10	9	7	7	5	82	82	●	●	●	-	●	●	-	-	●	-	❖262H138	-	
1/4	3.2	0.3	11	10	9	7	7	5	82	82	-	-	●	-	-	-	-	-	●	8262H262	-	-	
1/4	4	0.47	6	6	5	4	4	3	82	82	-	-	●	-	-	-	-	-	●	8262H263	8262H142	-	
1/4	4	0.43	5.5	5	4	3	3	3	90	90	-	-	-	●	-	-	●	-	-	❖262A263 <sup>(2)</sup>	-	-	
1/4	5.6	0.72	3	3	3	2	2	2	82	82	-	-	●	-	-	-	-	-	●	-	8262H148	-	
1/4	7.1	0.83	2	2	2	1	1	1	82	82	-	-	●	-	●	-	-	-	●	8262H265	8262H152	-	
1/4	7.1	0.83	3	3	3	2	2	2	75	82	-	-	●	-	-	-	-	-	●	-	8262H225	-	
3/8	3.2	0.3	14	13	12	9	8	7	75	82	-	-	●	-	-	-	-	-	●	-	8263H104	-	
3/8	4	0.47	8	8	7	5	4	4	75	82	-	-	●	-	-	-	-	-	●	8263H101	-	-	
3/8	5.6	0.72	3	3	3	2	2	2	82	82	-	-	●	-	-	-	-	-	●	-	8263H082	-	

● Available Express  
 (1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"  
 (2) AC only  
 ❖ Stands for options of "B or 8" for NPT port thread and "E" for BSP port thread

# ASCO™ Solenoid Valves

Proportional direct operated, for vapour recovery regulating applications,  
1/4" - 3/4"



**2/2**  
Series  
**291**

## Features

- The proportional solenoid valves can handle a variable flow of fuel vapour, proportional to the control signal
- The high quality FPM disc core construction guarantees a long operating life and a wide temperature range
- Explosion proof operator, intended for use in potentially explosive areas, according to Directive ATEX 2014/34/EU
- Easy electrical installation by means of the moulded-in supply cable, standard length of 2 meter
- ASCO Numatics components satisfy all relevant EC directives



## Standard Voltages

DC (=) : 24V

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Catalog Number
				Min	Max. PS	
G	(mm)	(m <sup>3</sup> /h)	(l/min)	=		
<b>NC - Normally closed</b>						
1/4	5.6	0.73	12.2	0	1	PVG291A210
1/4	5.6	0.73	12.2	0	1	PVXG291A210 TPL24069 <sup>(1)</sup>
3/4	20	3.9	65	0.3	3.5	PVXG291A111 TPL26688 <sup>(2)</sup>

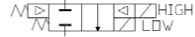
● Available Express

(1) 5 watts coil with 3m cable, PTFE disc & FPM O-ring

(2) The outlet is perpendicular to the inlet

# ASCO™ Petrol Vending Valves

Dual stage, 3/4" - 1"

NC 

2/2  
Series  
292

## Features

- The normally closed petrol dispensing valves are especially designed to meet the particular needs for the fuel dispensers
- Valve offers three flow positions, i.e. full flow, low flow, and shut off
- Minimum operating differential pressure 0.35 bar
- Explosion proof operator, intended for use in potential explosive areas, according to Directive ATEX 2014/34/EU
- Easy electrical installation by means of the moulded-in supply cable, standard length 2 meter
- ASCO Numatics components satisfy all relevant EC directives
- Can resist M15 and E20 Petrol



## Standard Voltages

AC (~) : 220V/50-60Hz

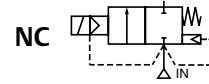
## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv				Operating Pressure Differential (bar)			Catalog Number
		Low		High		Min	Max. PS		
T	(mm)	(m <sup>3</sup> /h)	(l/min)	(m <sup>3</sup> /h)	(l/min)			~	=
<b>NC - Normally closed</b>									
3/4	2.5	0.1	1.7	4.3	72	0.35	2.7	2.7	PVT29227 <sup>(1)</sup>
1	25	0.12	2	11.5	192	0.35	3.5	3.5	PVT292B25 <sup>(2)</sup>

- (1) TPL 24004 also available  
 TPL 24035 also available  
 TPL 24043 also available  
 TPL 24015 also available  
 (2) TPL 24037 also available

# ASCO™ Pulse Valves

Aluminium body, 3/4" - 3 1/2"



2/2  
Series  
353

## Features

- The 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 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
- Integral compression fittings for fast, easy, secure installation
- Built-in silencers reduce noise and prevent foreign particles from entering the valve
- The integral operators are provided with epoxy moulded F-class coils. Various optional waterproof and explosionproof solenoids for use in potentially explosive atmospheres (gas & dust) according to Directive ATEX 2014/34/EU can be mounted on the same basic valve
- The valves satisfy all relevant EC directives



## Standard Voltages

DC (=) : 24V  
 AC (~) : SC, EF/VCEF 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 NF/WSNF 115V/50Hz; 120V/60Hz; 230V/50Hz

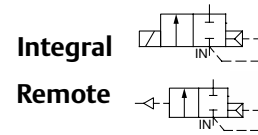
## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)			Prefix				Catalog Number		
				Min.	Max. (PS)		SC	EF/VCEF <sup>(1)</sup>	NF/NFET	WSNF/WSNFET	Aluminium	Stainless Steel	
					~	=							
(mm)	(m <sup>3</sup> /h)	(l/min)											
<b>Remote pilot (G - Threaded pipe connection)</b>													
3/4	24	14	233	0.35	8.5	8.5						G353A041	G353A130
1	27	17	283	0.35	8.5	8.5						G353A042	G353A131
1 1/2	52	46	768	0.35	8.5	8.5						G353A046	-
<b>Remote pilot (Ø - Compression fitting pipe connection)</b>													
3/4	24	14	283	0.35	8.5	8.5						G353.055	-
1	27	17	283	0.35	8.5	8.5						G353.056	-
<b>Integral pilot (G - Threaded pipe connection)</b>													
3/4	24	14	233	0.35	8.5	8.5	-	-	●	●		G353A043	G353D132
3/4	24	14	233	0.35	8.5	8.5	●	●	-	-		G353G043	G353G132
1	27	17	283	0.35	8.5	8.5	-	-	●	●		G353A044	G353D133
1	27	17	283	0.35	8.5	8.5	●	●	-	-		G353G044	G353G133
1 1/2	52	44	733	0.35	8.5	8.5	-	-	●	●		G353A047	G353D134
1 1/2	52	44	733	0.35	8.5	8.5	●	●	-	-		G353G047	G353G134
2	66	77	1290	0.35	8.5	8.5	●	●	-	-		G353G050	-
2 1/2	66	92	1540	0.35	8.5	8.5	●	●	-	-		G353G051	-
3	76	170	2833	1	6	6	●	-	-	-		G353G060	-
<b>Integral pilot (Ø - Compression fitting pipe connection)</b>													
3/4	24	14	233	0.35	8.5	8.5	●	●	-	-		G353G052	-
1	27	17	283	0.35	8.5	8.5	●	●	-	-		G353G053	-
1 1/2	52	44	733	0.35	8.5	8.5	●	●	-	-		G353G065	-
<b>Tank mounted version</b>													
3	75	170	2833	1	6	6	●	●	-	-		R353G060	-
3	76	210	3500	1	6	6	●	●	-	-		R353G230	-
3 1/2	90	280	4667	1	6	6	●	●	-	-		R353G235	-

● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21



## Features

- 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.
- 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 / CSA solenoid approvals (DIN Coil) and RoHS compliant.



## Standard Voltages

DC (=) : 24V

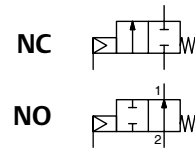
AC (~) : 230V/50-60Hz

## Specifications

Pipe Size	Connection	Ambient	Orifice Size (mm)	Flow Factor		Operating Pressure Differential (bar)		Catalog Number Aluminium	Options
				Kv (m <sup>3</sup> /h)	Cv	Min.	Max.		
<b>2-Way Normally Closed Valve, TPE (One-Piece Diaphragm)</b>									
3/4	G thread	Regular	32	13	15	2	8.5	G353K111S1	A00
		Low Temperature						G353K112S1	
	clamp	Regular						K353K111S1	
		Low Temperature						K353K112S1	
1	G thread	Regular	32	20	23	2	8.5	G353K211S1	
		Low Temperature						G353K212S1	
	clamp	Regular						K353K211S1	
		Low Temperature						K353K212S1	

# ASCO™ Angle Seated Valves

Stainless steel body, 3/8" - 2 1/2"



2/2  
Series  
E290

## Features

- High flow due to angled seat design
- Anti-waterhammer design (fluid entry under the disc)
- Vacuum operation up to 10-2 mbar
- Wide range of piston-type operators (32 - 50- 63 - 90 -125 mm dia.) rotatable through 360°, for maximum performance at different minimum pilot pressures
- High performance, maintenance-free stuffing box
- The valves satisfy Pressure Equipment Directive 97/23/EC, category 1 (DN > 25) or article 3.3(DN ≤ 25)



## Specifications

Piping (ISO 6708)		Flow Coefficient Kv		Pilot Pressure (bar)		Operating Pressure Differential (bar)				Operator Diameter	Catalog Number	Suffix
Pipe Size (G*)	DN	(m³/h)	(l/min)	Min.	Max.	Min.	Max.			(mm)	Stainless steel	
							Air, Inert gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids	Steam (≤184°C)			
<b>NC - Normally closed, entry under the disc</b>												
3/8	10	2.8	47	4	10	0	16	16	10	32	❖290A791	VI
1/2	15	4.1	68	4	10	0	12	12	10	32	❖290A792	VI
1/2	15	4.9	82	4	10	0	16	16	10	50	❖290A393	VI
1/2	15	4.9	82	2.5	10	0	16	16	10	63	❖290B045	-
3/4	20	6.5	108	4	10	0	6	6	6	32	❖290A793	VI
3/4	20	9.4	157	4	10	0	10	10	10	50	❖290A394	VI
3/4	20	9.4	157	4	10	0	16	16	10	63	❖290B048	-
3/4	20	9.4	157	2.5	10	0	12	12	10	63	❖290B047	-
1	25	12.8	213	4	10	0	6	6	6	50	❖290A395	VI
1	25	16.5	275	4	10	0	10	10	10	63	❖290B053	-
1	25	16.5	275	4	10	0	16	16	10	90	❖290B054	-
1	25	16.5	275	2.5	10	0	6	6	6	63	❖290B051	-
1	25	16.5	275	2.5	10	0	12	12	10	90	❖290B052	-
1 1/4	32	27	450	2.5	10	0	3	3	3	63	❖290A057	-
1 1/4	32	27	450	2.5	10	0	7	7	7	90	❖290A058	-
1 1/4	32	27	450	4	10	0	6	6	6	63	❖290A059	-
1 1/4	32	27	450	4	10	0	12	12	10	90	❖290A060	-
1 1/2	40	45	750	4	10	0	4	4	4	63	❖290A063	-
1 1/2	40	45	750	4	10	0	8	8	8	90	❖290A064	-
1 1/2	40	45	750	2.5	10	0	4	4	4	90	❖290A062	-
2	50	59	983	4	10	0	2.5	2.5	2.5	63	❖290A067	-
2	50	59	983	4	10	0	6	6	6	90	❖290A068	-
2 1/2	65	94	1567	4	10	0	2	2	2	90	E290A500	-
<b>NO - Normally open, entry under the disc</b>												
3/8	10	2.8	47	IX(*)	10	0	16	16	10	32	❖290A794	VI
1/2	15	4.1	68	IX(*)	10	0	16	16	10	32	❖290A795	VI
1/2	15	4.9	82	I(*)	10	0	16	16	10	50	❖290A396	VI
1/2	15	4.9	82	II(*)	10	0	16	16	10	63	❖290B069	-
3/4	20	6.5	108	IX(*)	10	0	16	16	10	32	❖290A796	VI
3/4	20	9.4	157	I(*)	10	0	16	16	10	50	E290A397	VI
3/4	20	9.4	157	II(*)	10	0	16	16	10	63	❖290B070	-
1	25	16.5	275	II(*)	10	0	16	16	10	63	❖290B071	-
1	25	16.5	275	III(*)	10	0	16	16	10	90	❖290B072	-
1 1/4	32	27	450	II(*)	10	0	16	16	10	63	❖290A073	-
1 1/4	32	27	450	III(*)	10	0	16	16	10	90	E290A074	-
1 1/2	40	45	750	II(*)	10	0	11	11	10	63	❖290A075	-
1 1/2	40	45	750	III(*)	10	0	16	16	10	90	❖290A076	-
2	50	59	983	II(*)	10	0	7	7	7	63	E290A077	-
2	50	59	983	III(*)	10	0	13	13	10	90	❖290A078	-
2 1/2	65	94	1567	III(*)	10	0	7	7	7	90	E290A504	-

Express delivery ❖Stands for options of E for Rp thread & D for Rc thread

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

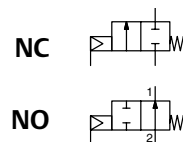
Specifications

Piping (ISO 6708)		Flow Coefficient Kv		Pilot Pressure (bar)		Operating Pressure Differential (bar)				Operator Diameter (mm)	Catalog Number	Suffix
Pipe Size (G*)	DN	(m³/h)	(l/min)	Min.	Max.	Min.	Max.					
							Air, Inert gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids	Steam (≤184°C)			
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)												
3/8	10	2.8	47	X (*)	10	0	10	-	10	32	❖290A797	VI
1/2	15	4.1	68	X (*)	10	0	10	-	10	32	❖290A798	VI
1/2	15	4.9	82	V (*)	10	0	10	-	10	50	❖290A399	VI
1/2	15	4.9	82	VI (*)	10	0	10	-	10	63	❖290B079	-
3/4	20	6.5	108	X (*)	10	0	10	-	10	32	E290A799	VI
3/4	20	9.4	157	V (*)	10	0	10	-	10	50	❖290A400	VI
3/4	20	9.4	157	VI (*)	10	0	10	-	10	63	❖290B080	-
1	25	12.8	213	V (*)	10	0	10	-	10	50	❖290A401	VI
1	25	16.5	275	VI (*)	10	0	10	-	10	63	❖290B081	-
1 1/4	32	27	450	VI (*)	10	0	10	-	10	63	❖290A082	-
1 1/4	32	27	450	VII (*)	10	0	10	-	10	90	E290A137	-
1 1/2	40	45	750	VI (*)	10	0	10	-	10	63	❖290A083	-
1 1/2	40	45	750	VII (*)	10	0	10	-	10	90	❖290A084	-
2	50	59	983	VI (*)	10	0	9	-	9	63	E290A085	-
2	50	59	983	VII (*)	10	0	10	-	10	90	❖290A086	-
2 1/2	65	94	1567	VII (*)	10	0	10	-	10	90	E290A625	-

Express delivery ❖Stands for options of E for Rp thread & D for Rc thread

# ASCO™ Angle Seated Valves

CLAMP or butt welding connection, stainless steel body, DN 10 to 65



2/2  
Series  
S290

## Features

- Valve with clamp type connection to ISO 2852 for quick disconnection, a system commonly used in the food processing industry or with butt welding connection to ISO 6761 for stainless steel pipe to ISO 1127
- CLAMP valve body pickled in nitric/fluoric acid bath (NET-INOX passivation treatment)
- High flow due to angled seat design
- Anti-waterhammer design (fluid entry under the disc)
- Vacuum operation up to 10-2 mbar
- Wide range of piston-type operators (32 - 50- 63 - 90 -125 mm dia.) rotatable through 360°, for maximum performance at different minimum pilot pressures
- High performance, maintenance-free stuffing box
- The valves satisfy Pressure Equipment Directive 97/23/EC, category 1 (DN > 25) or article 3.3 (DN ≤ 25)



## Specifications

DN	O.D. of Stub (clamp)	O.D. of Stub (butt)	Flow Coefficient Kv		Pilot Pressure (bar)		Operating Pressure Differential (bar)				Operator Diameter (mm)	Catalog Number		Suffix
							Min.	Max.				Clamp Connection <sup>(1)</sup>	Butt Welding Connection	
								Air, Inert Gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids	Steam (≤184°C)				
(mm)	(mm)	(m <sup>3</sup> /h)	(l/min)	Min.	Max.									
<b>NC - Normally closed, entry under the disc</b>														
10	34	17.2	2.8	47	4	10	0	16	16	10	32	XS290A800	S290A802	VI
15	34	21.3	4.1	68	4	10	0	12	12	10	32	XS290A804	S290A806	VI
15	34	21.3	4.9	82	4	10	0	16	16	10	50	XS290A408	S290A417	VI
15	34	21.3	4.9	82	2.5	10	0	16	16	10	63	XS290B137	S290B205	-
20	50.5	26.9	6.5	108	4	10	0	6	6	6	32	XS290A808	S290A810	VI
20	50.5	26.9	9.4	157	4	10	0	10	10	10	50	XS290A409	S290A418	VI
20	50.5	26.9	9.4	157	4	10	0	16	16	10	63	XS290B140	S290B208	-
20	50.5	26.9	9.4	157	2.5	10	0	12	12	10	63	XS290B139	S290B207	-
25	50.5	33.7	12.8	213	4	10	0	6	6	6	50	XS290A410	S290A419	VI
25	50.5	33.7	16.5	275	4	10	0	10	10	10	63	XS290B145	S290B211	-
25	50.5	33.7	16.5	275	4	10	0	16	16	10	90	XS290B146	S290B212	-
25	50.5	33.7	16.5	275	2.5	10	0	6	6	6	63	XS290B143	S290B210	-
25	50.5	33.7	16.5	275	2.5	10	0	12	12	10	90	XS290B144	-	-
32	64	42.4	27	450	4	10	0	6	6	6	63	XS290A151	S290A215	-
32	64	42.4	27	450	4	10	0	12	12	10	90	-	S290A216	-
32	64	42.4	27	450	2.5	10	0	3	3	3	63	-	S290A214	-
40	64	48.3	45	750	4	10	0	4	4	4	63	XS290A155	S290A217	-
40	64	48.3	45	750	4	10	0	8	8	8	90	XS290A156	S290A218	-
40	64	48.3	45	750	2.5	10	0	4	4	4	90	XS290A154	-	-
50	77.5	60.3	59	983	4	10	0	2.5	2.5	2.5	63	XS290A687	S290A719	-
50	77.5	60.3	59	983	4	10	0	6	6	6	90	XS290A688	S290A720	-
50	77.5	60.3	59	983	2.5	10	0	2.5	2.5	2.5	90	XS290A685	-	-
65	91	76.1	94	1567	4	10	0	2	2	2	90	XS290A691	S290A722	-
<b>NO - Normally open, entry under the disc</b>														
10	34	17.2	2.8	47	IX (*)	10	0	16	16	10	32	XS290A812	S290A814	VI
15	34	21.3	4.1	68	IX (*)	10	0	16	16	10	32	XS290A816	S290A818	VI
15	34	21.3	4.9	82	I (*)	10	0	16	16	10	50	XS290A411	S290A420	VI
15	34	21.3	4.9	82	II (*)	10	0	16	16	10	63	XS290B161	S290B221	-
20	50.5	26.9	6.5	108	IX (*)	10	0	16	16	10	32	XS290A820	S290A822	VI
20	50.5	26.9	9.4	157	I (*)	10	0	16	16	10	50	XS290A412	S290A421	VI
20	50.5	26.9	9.4	157	II (*)	10	0	16	16	10	63	XS290B162	S290B222	-
25	50.5	33.7	12.8	213	I (*)	10	0	16	16	10	50	XS290A413	S290A422	VI
25	50.5	33.7	16.5	275	II (*)	10	0	16	16	10	63	XS290B163	S290B223	-
32	64	42.4	27	450	II (*)	10	0	16	16	10	63	XS290A164	S290A224	-
40	64	48.3	45	750	II (*)	10	0	11	11	10	63	XS290A165	S290A225	-
50	77.5	60.3	59	983	II (*)	10	0	7	7	7	63	XS290A693	S290A724	-
50	77.5	60.3	59	983	III (*)	10	0	13	13	10	90	XS290A694	S290A725	-
65	91	76.1	94	1567	III (*)	10	0	7	7	7	90	XS290A695	S290A726	-

Express delivery  
(1) SS clamp connection without NET-INOX treatment with TPL 24045

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

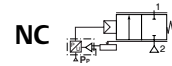
**Specifications**

DN	O.D. of Stub (clamp) (mm)	O.D. of Stub (butt) (mm)	Flow Coefficient Kv (m <sup>3</sup> /h) (l/min)		Pilot Pressure (bar) Min. Max.		Operating Pressure Differential (bar)			Operator Diameter (mm)	Catalog Number		Suffix	
							Min.	Max.			Clamp Connection <sup>(1)</sup>	Butt Welding Connection		
								Air, Inert Gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids					Steam (≤184°C)
<b>NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)</b>														
10	34	17.2	2.8	47	X (*)	10	0	10	-	10	32	XS290A824	S290A826	VI
15	34	21.3	4.1	68	X (*)	10	0	10	-	10	32	XS290A828	S290A830	-
15	34	21.3	4.9	82	V (*)	10	0	10	-	10	50	XS290A414	S290A423	-
15	34	21.3	4.9	82	VI (*)	10	0	10	-	10	63	XS290B167	S290B227	-
20	50.5	26.9	6.5	108	X (*)	10	0	10	-	10	32	XS290A832	S290A834	-
20	50.5	26.9	9.4	157	V (*)	10	0	10	-	10	50	XS290A415	S290A424	-
20	50.5	26.9	9.4	157	VI (*)	10	0	10	-	10	63	XS290B168	S290B228	-
25	50.5	33.7	12.8	213	V (*)	10	0	10	-	10	50	XS290A416	S290A425	-
25	50.5	33.7	16.5	275	VI (*)	10	0	10	-	10	63	XS290B169	S290B229	-
32	64	42.4	27	450	VI (*)	10	0	10	-	10	63	XS290A170	S290A230	-
40	64	48.3	45	750	VI (*)	10	0	10	-	10	63	XS290A171	S290A231	-
40	64	48.3	45	750	VII (*)	10	0	10	-	10	90	-	S290A259	-
50	77.5	60.3	59	983	VI (*)	10	0	9	-	9	63	XS290A697	S290A728	-
50	77.5	60.3	59	983	VII (*)	10	0	10	-	10	90	XS290A698	S290A729	-
65	91	76.1	94	1567	VII (*)	10	0	10	-	10	90	XS290A699	S290A730	-

Express delivery  
(1) SS clamp connection without NET-INOX treatment with TPL 24045

# ASCO™ Angle Seated Proportional Valves

all standard connection types



**2 way**  
Series  
**290**

## Features

- Precise, quick-acting and robust valve suitable for use in outdoor industrial environments
- Exceptional long service life
- Variable flow proportional to the control signal
- Real-time control
- Ready-to-use valve
- The positioner can be directly connected to an external sensor (double loop control)
- Power saving function and no air consumption when position is reached
- Manual valve operator
- LED indicators for valve status display
- External exhausting



## Positioner D Controller Specifications (NC valves, fluid entry under the disc)

Analog Setpoint	Suffix for Proportional Valve and Positioner <sup>(1)</sup> Delivered Assembled			
	Fail Position Maintained <sup>(2)</sup>		Fail Close <sup>(3)</sup>	
	2 Way		2 Way	
	Cable Gland	M12	Cable Gland	M12
<b>Positioner<sup>D</sup>, Single Loop</b>				
0 - 10 VDC	PDB76	PDB82	PDB78	PDB84
4 - 20 mA	PDB77	PDB83	PDB79	PDB85
<b>Positioner<sup>D</sup>, Double Loop</b>				
0 - 10 VDC	-	-	PDB80	PDB86
4 - 20 mA	-	-	PDB81	PDB87

Express delivery

(1) Place the indicated suffix after the catalog number of the valve selected

(2) Fail position of the valve disc maintained on loss of power

(3) Fail Close: Valve returns to closed position on loss of power

## Valve Specifications Threaded E290

Pipe Size		Flow Coefficient Kv		Pilot Pressure (bar)		Operating Pressure Differential (bar)			Operator Diameter	Catalog Number	
(G <sup>*</sup> )	DN	(m <sup>3</sup> /h)	(l/min)	Min.	Max.	Min.	Max.		(mm)	Stainless Steel	
							Air, Inert Gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids			Steam (≤184°C)
<b>NC - Normally closed, entry under the disc</b>											
1/2	15	4.6	77	2.5	8	0	16	16	10	63	E290B045PD
1/2	15	4.9	82	4	10	0	16	16	10	50	E290A393PD
3/4	20	7.1	118	4.5	8	0	16	16	10	63	E290B048PD
3/4	20	9.4	157	4	10	0	10	10	10	50	E290A394PD
3/4	20	9.4	157	2.5	10	0	12	12	10	63	E290B047PD
1	25	15	250	4.5	8	0	10	10	10	63	E290B053PD
1	25	15	250	4.5	8	0	16	16	10	90	E290B054PD
1 1/4	32	21	350	4.5	8	0	6	6	6	63	E290A059PD
1 1/4	32	21	350	4.5	8	0	12	12	10	90	E290A060PD
1 1/2	40	29	483	4.5	8	0	4	4	4	63	E290A063PD
1 1/2	40	29	483	4.5	8	0	8	8	8	90	E290A064PD
2	50	40	667	4.5	8	0	2.5	2.5	2.5	63	E290A067PD
2	50	40	667	4.5	8	0	6	6	6	90	E290A068PD
2 1/2	65	68	1133	4.5	8	0	2	2	2	90	E290A500PD

Express delivery

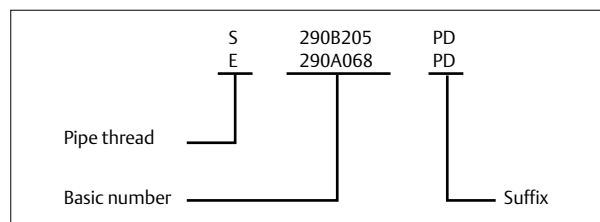
10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

**Valve Specifications**  
**Butt Weld & Tri Clamp S290**

Pipe Size		Flow Coefficient Kv		Pilot Pressure (bar)		Operating Pressure Differential (bar)				Operator Diameter	Catalog Number	
						Min.	Max.				(mm)	Stainless Steel Clamp Connection <sup>(4)</sup>
(G*)	DN	(m³/h)	(l/min)	Min.	Max.		Air, Inert Gas, Aggressive Fluids	Water, Oil, Liquids, Aggressive Liquids	Steam (≤184°C)			
<b>NC - Normally closed, entry under the disc</b>												
1/2	15	4.6	77	2.5	8	0	16	16	10	63	XS290B137PD	S290B205PD
3/4	20	7.1	118	4.5	8	0	16	16	10	63	XS290B140PD	S290B208PD
1	25	15	250	4.5	8	0	10	10	10	63	XS290B145PD	S290B211PD
1	25	15	250	4.5	8	0	16	16	10	90	XS290B146PD	S290B212PD
1 1/4	32	21	350	4.5	8	0	6	6	6	63	XS290A151PD	S290A215PD
1 1/4	32	21	350	4.5	8	0	12	12	10	90	-	S290A216PD
1 1/2	40	29	483	4.5	8	0	4	4	4	63	XS290A155PD	S290A217PD
1 1/2	40	29	483	4.5	8	0	8	8	8	90	XS290A156PD	S290A218PD
2	50	40	667	4.5	8	0	2.5	2.5	2.5	63	XS290A687PD	S290A719PD
2	50	40	667	4.5	8	0	6	6	6	90	XS290A688PD	S290A720PD
2 1/2	65	68	1133	4.5	8	0	2	2	2	90	XS290A691PD	S290A722PD

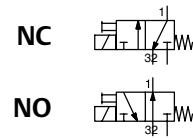
Express delivery  
(4) SS clamp connection without NET-INOX treatment with TPL 24045

**Ordering Examples**



# ASCO™ Solenoid Valves

Direct operated, brass or stainless steel bodies, 1/8" - 1/4"



2/2  
Series  
356

## Features

- Compact design for the control of single-acting actuators or filling and draining cycles
- Wide range of flow and pressure ratings
- Quick disassembly of core tube for easy maintenance of internal parts
- Standard disc seal made of FPM suitable for a wide range of operating temperatures and compatible with many fluids
- Standard manual operator allows an easy installation
- AC/DC interchangeability of the solenoid without disassembly of the valve
- Compact and low weight valve



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

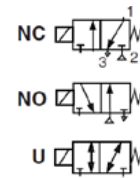
Pipe Size	Orifice Size	Flow Coefficient Kv				Operating Pressure Differential (bar)			Power Coil (W)		Prefix		Catalog Number		Options
						Min.	Max. (PS)						Brass	Stainless Steel	
		2 → 1	3 → 1	Air, Water, Oil	~		=	~	=	~/=	~/=				
G	(mm)	(m³/h)	(l/min)	(m³/h)	(l/min)		~	=	~	=	SC	U	~/=	~/=	
<b>NC - Normally closed</b>															
1/8	1.2	0.05	0.8	0.05	0.8	0	15	15	4	6.9	●	-	8356B001V	-	-
1/8	1.2	0.05	0.8	0.05	0.8	0	15	15	4	6.9	●	-	G356B001V	-	MS
1/8	1.6	0.08	1.33	0.05	0.8	0	10	10	4	6.9	●	-	G356B002V	-	MS
1/8	2	0.1	1.66	0.05	0.8	0	5	5	4	6.9	●	-	G356B003V	-	MS
1/8	1.2	0.05	0.8	0.05	0.8	0	15	15	4	6.9	●	-	-	8356B013V	-
1/8	2	0.1	1.66	0.05	0.8	0	5	5	4	6.9	●	-	-	G356B015V	MS
1/8	2.4	0.13	2.1	0.05	0.8	0	4	4	4	6.9	●	-	G356B004V	-	-
1/8	2.4	0.13	2.1	0.05	0.8	0	4	4	4	6.9	●	●	-	8356B016V	-
1/8	2.4	0.13	2.1	0.05	0.8	0	4	4	4	6.9	●	-	-	G356B016V	MS
1/4	1.6	0.08	1.33	0.05	0.8	0	10	10	5	6.9	●	-	-	8356B434V	-
1/4	1.6	0.08	1.33	0.05	0.8	0	10	10	5	6.9	●	-	G356B466V	G356B434V	MS
1/4	2.4	0.16	2.67	0.05	0.8	0	4	4	5	6.9	●	-	G356B470V	G356B436V	MS
<b>NO - Normally open</b>															
1/8	1.2	0.05	0.8	0.05	0.8	0	8.5	8.5	4	6.9	●	-	8356B005V	-	-
1/8	1.6	0.096	1.6	0.05	0.8	0	8.5	8.5	4	6.9	●	-	G356B006V	-	MS
<b>U - Universal</b>															
1/8	1.2	0.05	0.8	0.05	0.8	0	7	7	4	6.9	●	●	8356B009V	-	-

● Available Express

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

1.4 W low power, brass or stainless steel bodies, 1/4"



**3/2**  
Series  
**314**

## Features

- Molded one-piece solenoid with highly efficient solenoid cartridge and special low wattage coil
- Increased ambient temperature capabilities up to 175°F (80°C)
- Designed for use in automation of plant control systems to provide:
  - PLC compatibility
  - Reduced battery drain
  - Reduced heat rise
  - Reduced wiring cost
- Air or inert gas only



## Standard Voltages

DC (=) : 12V/24V

## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)		Operating Pressure Differential (bar)		Max. Fluid and Ambient Temp. °C	Prefix				No Prefix	Catalog Number		Suffix	
				Air-Inert Gas			VC	EF/VCEF <sup>(1)</sup>	EV/VCEV	JPIS/JSIS		Brass	Stainless Steel		
		Pressure to Cylinder	Cylinder to Exhaust	Min.	Max.										
<b>3/2 Valves, Universal operation (Normally closed or Normally open) with NBR disc - SIL 3 capable, Certified by Exida</b>															
1/4	2	0.07	0.07	0	10	60	●	●	●	-	●	8314G300	8314G301 <sup>(2)</sup>	MB	-
1/4	2	0.07	0.07	0	10	60	●	●	●	-	●	-	8314H301	MB	-
1/4	1.3	0.05	0.05	0	9	65	-	-	-	●	-	8314B300	8314B301	MB	MO

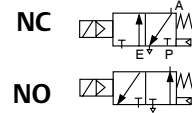
● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(2) TPL 24001 also available

# ASCO™ Solenoid Valves

Air and water, high flow, brass or stainless steel bodies, 1/4" - 3/4" NPT



**3/2**  
Series  
**316**

## Features

- Diaphragm poppet valves suitable for controlling air, inert gas, and liquids
- Internal piloting controls large orifices to provide high flows
- Can be used to pilot large actuators to provide quick closing of large control valves
- Resilient seating for tight shutoff
- Mountable in any position



## Standard Voltages

DC (=) : 24V; 125V(HC)  
 AC (~) : VC, EF/VCEF, EV/VCEV, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 NF/WSNF 115V/50Hz; 120V/60Hz; 230V/50Hz

## Specifications

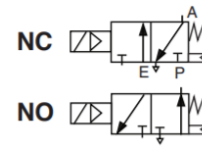
Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)		Operating Pressure Differential (bar)		Prefix											No Prefix	Catalog Number		Suffix
						Inert Gas		SC	VC	EF/VCEF <sup>(2)</sup>	EV/VCEV <sup>(2)</sup>	NF/NFET	WSNF/WSNFET	JKF/JKH	HT	HC		Brass Body	Stainless Steel	
		Pressure to Cylinder	Cylinder to Exhaust	Min.	Max.															
<b>Normally closed (Closed when de-energized)</b>																				
1/4	8	1.3	1.3	(1)	10	-	-	-	●	-	-	●	●	●	●	-	8316G081V	MB	MO	
3/8	8	1.3	1.3	(1)	10	-	-	-	●	-	-	●	●	●	●	-	8316G082V	MB	MO	
1/2	16	3.4	56.6	(1)	10	-	-	-	●	-	-	●	●	●	●	-	8316G084V	-	-	
1/2	16	3.4	56.6	(1)	10	-	-	-	-	-	●	-	-	-	-	-	B316A084V	MB	-	
1/2	16	2.7	2.7	0.7	10	●	●	●	-	-	-	●	●	●	●	8316G064 <sup>(3)(4)</sup>	-	MB	MO	
1/2	16	2.8	2.8	0.7	8.5	-	-	-	-	●	-	-	-	-	-	B316A064	-	MB	-	
3/4	17	4.1	4.1	0.7	10	-	●	●	-	-	-	●	●	-	●	8316G074	-	-	MO	

- Available Express
- (1) Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied. Minimum 1.0 bar operating pressure differential when selection gasket is in the internal position.
- (2) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"
- (3) TPL 24047 also available
- (4) TPL 24062 also available

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Low Power Solenoid Valves

Stainless steel bodies, 1/4" - 1/2" NPT



**3/2**  
Series  
**316**

## Features

- Brass body construction for general atmospheres; stainless steel for corrosive atmospheres
- Can be internally piloted, or externally piloted to convert valve to zero minimum operation by flipping a gasket
- When externally piloted, loss of electrical power or auxiliary air exhausts air from the actuator and shifts process valve to its original position
- When internally piloted, loss of electric power returns the valve to its original position
- Also available with Low Power or Intrinsically Safe solenoids. See Special Service Valve Section



## Standard Voltages

DC (=) : 24V

## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)		Operating Pressure Differential (bar)		Prefix					No Prefix	Catalog Number	Suffix	
				Inert Gas		EV/VCEV <sup>(2)</sup>	WSNF/WSNFET	HT	MF	JSIS				
		Pressure to Cylinder	Cylinder to Exhaust	Min.	Max.						Stainless Steel			
<b>3/2 Valves, Normally closed (Closed when de-energized) with NBR Disc – SIL 3 Capable, Certified by Exida</b>														
1/4	8	1.3	1.3	(1)	9	●	-	-	●	-	●	8316G381V	MB	MO
1/4	8	1.3	1.3	(1)	9	●	-	-	●	-	●	8316H381V	MB	MO
1/4	8	1.3	1.3	(1)	9	-	-	-	-	●	-	8316B381V	MB	MO
1/4	8	1.3	1.3	(1)	10	-	●	●	-	-	-	B316A381V	MB	MO
3/8	8	1.37	1.37	(1)	10	●	-	-	●	-	●	8316G382V	MB	MO
3/8	8	1.6	1.6	(1)	9	●	-	●	-	-	●	8316H382V	MB	MO
3/8	8	1.6	1.6	(1)	9	-	-	-	-	●	-	8316B382V	MB	MO
3/8	8	1.6	1.6	(1)	9	-	●	●	-	-	-	B316A382V	MB	MO
1/2	16	4	4	(1)	10	●	-	-	●	-	●	8316G384V	MB	MO
1/2	16	3.5	3.5	(1)	9	●	-	●	-	-	●	8316H384V	MB	MO
1/2	16	3.5	3.5	(1)	9	-	-	-	-	●	-	8316B384V	MB	MO
1/2	16	3.5	3.5	(1)	9	-	●	●	-	-	-	B316A384V	MB	MO

● Available Express

(1) Zero minimum when valve selection gasket is in external position and proper auxiliary air pressure is applied.

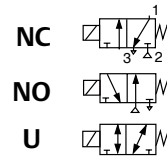
Minimum 1.0 bar operating pressure differential when selection gasket is in the internal position.

(2) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Solenoid Valves

General service, brass or stainless steel bodies, 1/4"



**3/2**  
Series  
**320**

## Features

- All NPT connections are in the valve body to allow in-line piping
- No minimum operating pressure differential required
- Broadest range of applications
- Mountable in any position



## Standard Voltages

DC (=): 24V; 125V(HC)  
 AC (~): VC, EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 SC, NF, WP 115V/50Hz; 120V/60Hz; 230V/50Hz

## Specifications

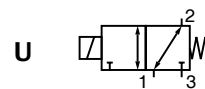
Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m³/h)	Operating Pressure Differential (bar)						Prefix													No Prefix	Catalog Number		Option						
			Max. AC			Max. DC			SC	VC	EF/VCEF <sup>(2)</sup>	EV/VCEV <sup>(3)</sup>	NF/NFET	WSNF/WSNFET	JKF/JKH	HB	HC	HT	WP	Brass	Stainless Steel										
			Air-Inert Gas	Water	Lt. Oil @ 300 SSU	Air-Inert Gas	Water	Lt. Oil @ 300 SSU																							
<b>U - Universal</b>																															
1/4	1.6	0.08	9	9	9	5	5	5	-	-	-	-	●	-	-	-	-	●	-	-	●	-	●	-	B320A172 <sup>(4)</sup>	-	MO	MS	E	-	
1/4	1.6	0.08	9	9	9	5	5	5	●	●	●	●	-	-	●	-	●	●	●	-	●	-	●	-	8320G172	-	MO	-	-	-	
1/4	2.4	0.1	7	7	7	4	4	4	●	-	-	-	●	-	-	-	●	●	●	-	●	-	●	-	B320B174	-	MO	MS	-	MB	
1/4	2.4	0.1	7	7	7	4	4	4	●	●	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	-	● <sup>(1)</sup>	-	●	-	●	-	8320G174	-	MO	-	-	-		
1/4	3.2	0.21	3	3	3	2	2	2	●	-	-	-	●	-	-	-	-	-	-	-	●	-	●	-	B320B176	-	MO	-	-	-	
1/4	3.2	0.21	3	3	3	2	2	2	-	-	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	●	● <sup>(1)</sup>	-	●	-	●	-	8320G176	-	MO	-	-	-		
1/4	4.4	0.3	1	1	1	1	1	1	●	-	●	●	-	-	●	-	●	●	●	-	●	-	●	-	8320G178	-	-	-	-	-	
1/4	2.4	0.1	7	7	7	4	4	4	●	-	-	-	-	●	-	-	●	●	●	-	●	-	●	-	-	B320A200	MO	MS	V	-	
1/4	2.4	0.1	7	7	7	4	4	4	-	●	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	-	● <sup>(1)</sup>	-	●	-	●	-	-	8320G200	-	-	-	-	-	
1/4	2.4	0.1	7	7	7	4	4	4	●	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	B320A201	-	-	-	-	-
1/4	3.2	0.21	3	3	3	2	2	2	-	-	●	●	-	-	● <sup>(1)</sup>	●	●	● <sup>(1)</sup>	-	●	-	●	-	-	8320G201	-	-	-	-	-	
<b>NC - Normally closed</b>																															
1/4	0.8	0.02	50	50	50	35	35	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	B320A180	-	-	-	-	-	
1/4	1.6	0.08	14	15	15	11	11	11	●	●	●	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	●	● <sup>(1)</sup>	●	●	●	-	●	-	8320G182	-	-	-	-	-
1/4	2.4	0.1	10	10	10	8	8	8	●	●	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G184	-	MO	MS	-	-
1/4	3.2	0.21	6	6	6	4	4	4	●	-	-	-	-	●	-	-	-	●	●	●	-	●	-	●	-	B320A186	-	MO	-	-	-
1/4	3.2	0.21	6	6	6	4	4	4	●	●	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G186	-	-	-	-	-
1/4	4.4	0.3	3	3	3	2	2	2	-	-	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G188	-	-	-	-	-
1/4	2.4	0.1	10	10	10	8	8	8	-	-	-	-	-	●	-	-	-	●	●	●	-	●	-	●	-	-	B320A202 <sup>(4)</sup>	MO	MS	-	-
1/4	2.4	0.1	10	10	10	8	8	8	●	●	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G202	-	-	-	-	-
1/4	3.2	0.21	6	6	6	4	4	4	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	●	-	B320A203	-	-	-	-	-
1/4	3.2	0.21	6	6	6	4	4	4	-	-	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G203	-	-	-	-	-
<b>NO - Normally open</b>																															
1/4	1.6	0.08	16	17	17	11	11	11	-	-	●	●	-	-	● <sup>(1)</sup>	● <sup>(2)</sup>	●	● <sup>(1)</sup>	-	●	-	●	-	●	-	8320G192	-	-	-	-	-
1/4	2.4	0.1	10	10	10	7	7	7	●	-	-	-	●	-	-	-	-	-	-	-	●	-	●	-	B320A194	-	-	MS	-	-	
1/4	2.4	0.1	10	10	10	7	7	7	-	●	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G194	-	-	-	-	-
1/4	3.2	0.21	5	5	5	4	4	4	-	-	-	-	●	-	-	-	-	●	●	●	-	●	-	●	-	B320A196	-	MO	-	-	-
1/4	3.2	0.21	5	5	5	4	4	4	-	-	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G196	-	-	-	-	-
1/4	4.4	0.3	3	3	3	2	2	2	-	-	●	●	-	-	●	-	-	●	●	●	-	●	-	●	-	8320G198	-	-	-	-	-
1/4	2.4	0.1	10	10	10	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B320A204	-	-	-	-	-
1/4	3.2	0.21	5	5	5	4	4	4	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	B320A205	-	-	-	-	-

● Available Express  
 (1) DC only  
 (2) AC only  
 (3) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"  
 (4) TPL 16137 also available

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

Direct operated, reduce & low power,  
brass or stainless steel bodies, 1/4" - 1/2"



3/2  
Series  
327

## Features

- The valves are certified according to IEC 61508 functional safety data and have SIL-3 capability (TÜV & Exida certification)
- The solenoid valves are recommended for pilot applications with basic flow, wide pressure ranges and no minimum operating pressure
- PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking
- Coils used in metal enclosures have class H insulation materials
- Option available for low ambient temperatures
- Peak voltage suppression diodes are standard in DC solenoids with metal enclosures
- The solenoid valves satisfy all relevant EC Directives
- Manual operators are optional including an under pressure removable type
- Environmental NACE compliant and certified vibration resistant in combination with WSCR solenoids



## Standard Voltages

DC (=) : 24V  
 AC (~) : VC, EF/VCEF, Redhat II 115-120V/50-60Hz; 230-240V/50-60Hz  
 SC, NF/WSNF, WSCR, WP/WS 115V/50-60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Power Level	Prefix													No Prefix	Catalog Number		Suffix
				Min.	Max. (PS)		SC	VC	EF/VCEF <sup>(2)</sup>	EV/VCEV <sup>(2)</sup>	NF/NFET <sup>(6)(7)</sup>	NFET/WSNFET	WSNFIS	WSCR	HT	WP/WS	Brass	Stainless Steel					
																			~/=		~/=		
(mm)	(m <sup>3</sup> /h)	(l/m)																					
<b>U - Universal, FPM sealings and poppets (minimum fluid temperature -20°C)</b>																							
1/4	5.7	0.45	7.5	0	10	BP	●	-	-	-	●	●	-	-	-	●	-	8327B001 <sup>(4)(5)</sup>	8327B002 <sup>(4)(5)</sup>	MO/MS			
1/4	5.7	0.45	7.5	0	10	MP	●	-	-	-	●	●	-	-	-	●	-	8327B201	8327B202	MO/MS			
1/4	5.7	0.45	7.5	0	10	RP	●	-	-	-	●	●	-	-	-	●	-	8327B101	8327B102 <sup>(4)(5)</sup>	MO/MS			
1/4	5.7	0.45	7.5	0	10	RP	-	-	●	-	●	●	-	-	-	-	-	8327H101	8327H102	-			
1/4	5.7	0.45	7.5	0	10	LP	-	-	-	-	●	●	●	●	-	-	-	8327B301 <sup>(1)</sup>	8327B302 <sup>(1)(4)</sup>	MO/MS			
<b>U - Universal, VMQ sealings and poppets (minimum fluid temperature -40°C)</b>																							
1/4	5.7	0.45	7.5	0	10	BP	-	-	-	-	●	●	-	-	-	●	-	8327B011	8327B012	-			
<b>U - Universal, (F)VMQ sealings and poppets (minimum fluid temperature -50°C)</b>																							
1/4	5.7	0.45	7.5	0	10	MP	●	-	-	-	●	●	-	-	-	●	-	8327B211	8327B212	-			
1/4	5.7	0.45	7.5	0	10	RP	●	-	-	-	●	●	-	-	-	-	-	8327B111	8327B112	-			
1/4	5.7	0.45	7.5	0	10	LP	-	-	-	-	●	●	●	-	-	-	-	8327B311 <sup>(1)</sup>	8327B312 <sup>(1)</sup>	-			
<b>U - Universal, FPM sealings and poppets (minimum fluid temperature -20°C)</b>																							
1/4	6	0.42	7	-	10	BP	●	●	●	●	-	-	-	-	-	● <sup>(1)</sup>	-	●	8327G041	-	-		
1/4	6	0.42	7	-	10	BP	●	●	●	●	-	-	-	-	-	● <sup>(1)</sup>	-	●	-	8327G042	-		
<b>U - Universal, FPM sealings and poppets (minimum fluid temperature -40°C)</b>																							
1/4	6	0.42	7	-	10	BP	-	● <sup>(1)</sup>	●	●	-	-	-	-	-	-	-	●	-	8327G052	-		
<b>U - Universal, NBR sealings and poppets (High Flow)</b>																							
1/4	12	1.5	25	0	10	BP	●	-	-	-	-	●	-	-	-	●	-	8327A647	8327A648	MO			
1/2	12	1.5	25	0	10	BP	-	-	-	-	-	●	-	-	-	●	-	8327A607	8327A608 <sup>(3)</sup>	MO/MS			
<b>U - Universal, (F)VMQ sealings and poppets (High Flow)</b>																							
1/4	12	1.5	25	0	10	BP	-	-	-	-	-	●	-	-	-	-	-	-	-	8327A646	-		
1/2	12	1.5	25	0	10	BP	-	-	-	-	-	●	-	-	-	-	-	-	-	-	8327A606	-	

● Available Express

(1) DC only

(2) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(3) TPL 16137 also available

(4) TPL 18528 also available

(5) TPL 18538 also available

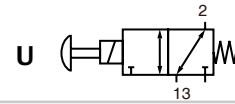
(6) TPL 26104 also available for prefix NF/WSNF

(7) NF/NFET for brass body only

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

No voltage release (tamperproof),  
manual reset construction, 1/4"



**3/2**  
Series  
**327**

## Features

- The valves are certified according to IEC 61508 functional safety data and have SIL-3 capability (Exida approval)
- Compact tamperproof/manual reset function which means that the valve has to be energized as well as manually operated before it stays in the "latched" position. Because of the tamperproof feature there will be no flow from port 3 to port 2 if only the push button is pressed. The No Voltage Release (NVR) function will make sure that the valve trips when de-energized
- The solenoid valves are recommended for pilot applications with basic flow, wide pressure ranges and no minimum operating pressure
- PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking
- Coils used in metal enclosures have class H insulation materials
- Peak voltage suppression diodes are standard in DC solenoids with metal enclosures
- The solenoid valves satisfy all relevant EC Directives



## Standard Voltages

DC (=) :	24V
AC (~) : EF/VCEF, Redhat II	115-120V/50-60Hz; 230-240V/50-60Hz
NF/WSNF, WP/WS	115V/50-60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Power Level	Prefix				Catalog Number	
				Min.	Max. (PS)		EF/VCEF	NF/NFET <sup>(2)(3)</sup>	NFET/WSNFET	WP	Brass	Stainless Steel
	Air/Water	~/=										
<b>U - Universal, FPM sealings and poppets, manual reset</b>												
1/4	5.7	0.55	9.2	0	10	BP	●	●	●	●	8327B021 <sup>(1)</sup>	8327B022 <sup>(1)</sup>
1/4	5.7	0.55	9.2	0	10	MP	-	●	●	●	8327B221	8327B222
1/4	5.7	0.55	9.2	0	10	RP	-	●	●	●	8327B121	8327B122
1/4	5.7	0.55	9.2	0	10	RP	●	-	-	-	8327H121	8327H122
1/2	12	1.8	30	0	10	MP	-	-	●	-	-	8327A620
<b>U - Universal, FPM sealings and poppets, manual reset tamperproof</b>												
1/4	5.7	0.55	9.2	0	10	BP	●	-	●	-	-	8327B032
1/4	5.7	0.55	9.2	0	10	MP	-	-	●	-	-	8327B232
1/4	5.7	0.55	9.2	0	10	RP	-	●	●	-	8327B131	8327B132
1/4	5.7	0.55	9.2	0	10	RP	●	-	-	-	8327H131	8327H132

● Available Express

(1) TPL 18528 also available

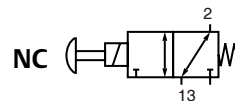
(2) TPL 26104 also available for prefix NF/WSNF

(3) NF/NFET for brass body only

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Solenoid Valves

NAMUR, 1/4"



**3/2**  
Series  
**327**

## Features

- The valves are certified according to IEC 61508 functional safety data and have SIL-3 capability (Exida approval)
- Compact tamperproof/manual reset function which means that the valve has to be energized as well as manually operated before it stays in the "latched" position. Because of the tamperproof feature there will be no flow from port 3 to port 2 if only the push button is pressed. The No Voltage Release (NVR) function will make sure that the valve trips when de-energized
- The solenoid valves are recommended for pilot applications with basic flow, wide pressure ranges and no minimum operating pressure
- PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking
- Coils used in metal enclosures have class H insulation materials
- Peak voltage suppression diodes are standard in DC solenoids with metal enclosures
- The solenoid valves satisfy all relevant EC Directives



## Standard Voltages

DC (=) : 24V  
AC (~) : NF/WSNF, WSCR, WP/WS 115V/50-60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Power Level	Prefix			Catalog Number		Suffix
				Min.	Max. (PS)		WSNF/WSNFET	VCEF	WP	Aluminum	Stainless Steel	
					Air/Water ~/=							
(mm)	(m <sup>3</sup> /h)	(l/m)										
<b>NC - Normally closed, FPM sealings and poppets (minimum fluid temperature -20°C)</b>												
1/4	5.7	0.45	7.5	0	10	BP	●	-	●	-	8327B005	MO/MS
1/4	5.7	0.45	7.5	0	10	RP	●	●	●	8327H103 <sup>(2)</sup>	8327B105 <sup>(3)</sup>	MO/MS
1/4	5.7	0.45	7.5	0	10	LP	●	-	●	-	8327B305 <sup>(1)</sup>	MS
<b>U - Universal, (F)VMQ sealings and poppets (minimum fluid temperature -50°C)</b>												
1/4	5.7	0.45	7.5	0	10	RP	-	●	-	8327H113	-	MO/MS

- Available Express
- (1) DC only
- (2) Only with VCEF
- (3) Not for VCEF

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Spool Valves

Pilot operated, 1/4 - 1 NPT

**3/2**  
**5/2**  
Series  
**362/562**

## Features

- Ideal for valve automation on oil and gas industry
- Reliable, robust design with high flow performance
- Corrosion Resistant - 316L Stainless Steel valve materials, suitable for offshore and harsh environments
- NACE MR0175-2003 compliant
- Rated for air, inert gas and sweet dry natural gas
- SIL 3 Capable options

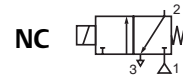


## Specifications

Pipe Size (in)	Function	Cv	Kv	Operating Pressure Differential (bar)		Catalog Number
				Inert Gas		
				Min.	Max.	
1/4	5/2	2	1.7	0	10.3	8562A1070031000
3/8		4.8	4.2	0	13.8	8562A2070031000
1/2		5.6	4.8	0	13.8	8562A3070031000
3/4		13	11.2	0	13.8	8562A4070031000
1		15.5	13.4	0	13.8	8562A5070031000
1/4	3/2	2	1.7	0	10.3	8362A1070001000
3/8		4.8	4.2	0	13.8	8362A2070001000
1/2		5.6	4.8	0	13.8	8362A3070001000
3/4		13	11.2	0	13.8	8362A4070001000
1		15.5	13.4	0	13.8	8362A5070001000

# ASCO™ Solenoid Valves

Direct operated, multiple manifold sub-bases, G 1/8"



**3/2**  
Series  
**HV293734**

## Features

- Compact size and easy assembly
- Suitable for mixing or distributing function; suitable for piston valve piloting function
- AC/DC interchangeability of the solenoid without disassembling the valve
- Quick disassembly of core tube for easy maintenance of internal parts



## Standard Voltages

DC (=) : 24V

AC (~) : 230V/50Hz

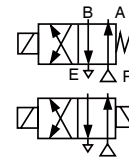
## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)				Power Coil (w)		Catalog Number	
				Min.	Max. (PS)		AC	DC			
					Air	Oil					
(mm)	(m <sup>3</sup> /h)	(l/min)	AC	DC	AC	DC	AC	DC			
<b>NC - Normally closed</b>											
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-2
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-3
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-4
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-5
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-6
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-7
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-8
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-9
1/8	1.5	0.06	1	0	8	8	8	8	●	●	HV293734-2-10

● Available Express

# ASCO™ Solenoid Valves

Direct operated, brass body, 1/4"



**4/2**  
Series  
**342**

## Features

- Direct acting operation and high flow construction
- Direct acting, high flow slide-style valve
- Optional flow control regulates cylinder speed independently, in either direction
- Mechanical detent on dual solenoids holds last position, even after loss of electric power, pneumatics or pressure
- No minimum operating pressure differential required to shift valve
- Dual solenoid operation: solenoid may be energized momentarily (1/10 second) or continuously
- Mountable in any position



## Standard Voltages

AC (~) : 110V/50Hz; 120V/60Hz; 220V/50Hz; 240V/60Hz

## Specifications

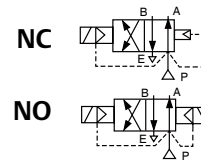
Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m <sup>3</sup> /h)	Operating Pressure Differential (bar)			Max. Fluid Temp. °C	Prefix			No Prefix	Catalog Number	Suffix
			Max. AC				EF/VCEF <sup>(1)</sup>	HB	WP		Brass	
			Air-Inert Gas	Water	Lt. Oil @ 300 SSU	AC						
<b>Single solenoid construction</b>												
1/4	4.8	0.6	9	7	7	71	-	-	●	-	B342C001	-
1/4	4.8	0.6	9	7	7	71	●	●	-	●	8342G001	-

● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

# ASCO™ Solenoid Valves

Piston / poppet, brass body, 1/2"



**4/2**  
Series  
**344**

## Features

- Sturdy, robust construction
- Piston-operated poppet design provides high flow
- For use with air or water
- Wide range of sizes and flow rates
- Single or dual solenoid constructions
- Dual solenoid can be shifted with a momentary signal and remain in position even if electrical power is lost
- Mountable in any position



## Standard Voltages

DC (=) : 24V; 125V(HC)  
 AC (~) : VC, EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 SC, NF/WSNF, WP/WS 115V/50Hz; 120V/60Hz; 230V/50Hz

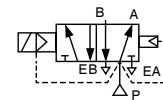
## Specifications

Pipe Size (in)	Orifice Size (mm)	Kv Flow Factor (m³/h)		Operating Pressure Differential (bar)								Max. Fluid Temp. °C		Prefix												No Prefix	Catalog Number		Suffix
				Max. AC				Max. DC						Brass	Stainless Steel														
		Press.	Exh.	Min.	Air-Inert Gas	Water	Light Oil @ 300 SSU	Air-Inert Gas	Water	Light Oil @ 300 SSU	AC	DC	SC			VC	EF/VCEF <sup>(1)</sup>	NF/NFET	WSNF/WSNFET	JKF/JKH	HC	HT	WP	WS	WSTIS	Brass	Stainless Steel		
<b>Single solenoid</b>																													
1/4	6	0.69	0.86	0.7	10	9	9	9	9	9	82	65	-	-	●	-	-	●	●	●	●	-	-	●	8344G070	-	MO	-	
1/4	6.4	0.7	11.6	0.7	9	9	9	9	9	9	82	49	-	-	-	-	●	-	-	●	●	●	-	-	-	8344A090	-	-	-
3/8	10	1.2	1.89	0.7	10	9	9	9	9	9	82	65	●	-	-	●	-	-	●	●	●	-	-	-	-	8344A072	-	MO	-
3/8	10	1.2	1.89	0.7	10	9	9	9	9	9	82	65	●	-	-	●	-	-	●	●	●	-	-	-	-	8344G072	-	MO	-
1/2	10	1.2	1.89	0.7	10	9	9	9	9	9	82	65	●	-	-	●	-	-	●	●	●	-	●	-	-	8344A074	-	-	-
1/2	10	1.2	1.89	0.7	10	9	9	9	9	9	82	65	-	●	●	-	-	●	●	●	●	-	-	-	-	8344G074	-	MO	-
1/2	9.5	1.9	31.6	0.7	9	9	9	9	9	9	82	49	-	-	-	-	●	-	-	●	●	●	-	-	-	8344A095	-	V	-
3/4	19	4.5	4.8	0.7	10	9	9	9	9	9	82	65	●	-	-	●	-	-	●	●	●	-	-	-	-	◆344A076	-	MO	-
3/4	19	4.5	4.8	0.7	10	9	9	9	9	9	82	65	●	-	-	●	-	-	●	●	●	-	-	-	-	8344G076	-	MO	-
<b>Dual solenoid</b>																													
1/4	6.4	0.7	11.6	0.7	17	9	-	9	9	-	82	49	●	-	-	-	-	-	●	●	●	-	-	-	-	8344-044	-	MO	-
1/4	6.4	0.7	11.6	0.7	17	14	9	9	9	7	82	49	-	-	●	-	-	-	●	-	-	-	●	-	-	8344G044	-	MO	-
3/8	9.5	1.9	31.6	0.7	17	14	-	9	9	-	82	49	●	-	-	-	-	-	●	●	●	-	-	-	-	8344-080	-	MO	-
3/8	9.5	1.9	31.6	0.7	17	14	9	9	9	7	82	49	●	-	●	-	-	-	●	●	●	-	-	-	-	8344G080	-	MO	-
1/2	10	1.4	1.89	0.7	17	14	9	9	9	7	82	49	-	-	●	-	-	-	●	●	●	-	-	-	-	8344G082	-	MO	-
3/4	19	5.2	4.8	0.7	21	21	14	9	9	7	82	49	●	-	-	●	-	-	●	●	●	-	-	-	-	◆344B054	-	MO	-
1	19	5.2	4.8	0.7	21	21	14	9	9	7	82	49	-	-	-	●	-	-	●	●	●	-	-	-	-	8344B056	-	MO	-

● Available Express  
 (1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"  
 ♦ Stands for options of "B" for NPT port thread and "E" for BSP port thread

# ASCO™ Solenoid Valves

General service, brass body, 1/4"



**4/2**  
Series  
**345**

## Features

- Compact valves for general service applications
- Low-cost, 4-way valve when low flow is sufficient
- Mountable in any position



## Standard Voltages

DC (=) : 24V  
AC (~) : EF/VCEF, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz

## Specifications

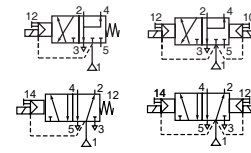
Pipe Size (in)	Orifice Size (mm)		Kv Flow Factor (m <sup>3</sup> /h)		Operating Pressure Differential (bar)						Max. Fluid Temp. °C		Prefix		No Prefix	Catalog Number	
					Min.	Max. AC			Max. DC			AC	DC	EF/VCEF <sup>(1)</sup>			HT
	Press.	Exh.	Inlet	Exh.		Air-Inert Gas	Water	Lt. Oil @ 50 SSU	Air-Inert Gas	Water	Lt. Oil @ 50 SSU						
<b>Single solenoid</b>																	
1/4	2	2	0.08	0.08	0.7	10	10	10	7	7	7	82	40	●	●	●	8345G001
<b>Single solenoid air-only construction - Exhaust to atmosphere</b>																	
1/4	2	2	0.08	0.08	0.7	10	-	-	7	-	-	82	40	●	-	●	8345H003

● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

# ASCO™ Solenoid Valves

Spool type, single/dual solenoid, aluminium body, 1/4",  
Namur and Threaded style



**3/2**  
**5/2**  
Series  
**531**

## Features

- The "Namur" style spool valve have threaded port connection and Namur interface, and "Threaded" style spool valve have threaded port connections
- All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matter (environmentally-protected construction)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- Stainless steel manual operator as standard



## Standard Voltages

DC (=):	24V
AC (~): SC (base code 0xx)	115/50Hz 120/60Hz; 230/50-60Hz
VC, EF/VCEF, EV/VCEV, Redhat II	110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz
NF/WSNF	115V/50Hz; 120V/60Hz; 230V/50Hz
WBLP	115V/50Hz; 230V/50Hz

## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)			Prefix										No Prefix	Catalog Number
				Min.	Max. (PS)		SC	VC	WBLP	EF/VCEF <sup>(1)</sup>	JKF/JKH	NF/NFET	JPIS	HT	WP			
					~	=												
(mm)	(m <sup>3</sup> /h)	(l/min)																
<b>NAMUR 3/2 NC - 5/2 - Solenoid air pilot operated - spring return (Single solenoid)</b>																		
1/4	6	0.95	15.5	2	10	10	●	-	●	-	-	-	-	-	-	-	❖531C001MS	
1/4	6	0.95	15.5	2	-	10	-	-	-	-	-	-	●	-	●	-	8531B301MO <sup>(2)</sup>	
1/4	6	0.95	15.5	2	-	10	-	●	-	●	-	-	-	-	-	-	8531G301MO <sup>(2)</sup>	
1/4	6	0.95	15.5	2	-	10	-	●	-	●	-	-	-	-	-	-	G531H301MO <sup>(2)</sup>	
1/4	6	0.95	15.5	2	10	10	-	-	-	-	●	-	●	●	-	-	8531B401MO	
1/4	6	0.95	15.5	2	10	10	-	●	-	●	-	-	-	●	-	●	8531G401MO	
1/4	6	0.95	15.5	2	10	10	-	●	-	●	-	-	-	●	-	●	G531H401MO	
<b>NAMUR 3/2 NC - 5/2 - Solenoid air pilot operated - spring return (Double solenoid)</b>																		
1/4	6	0.95	15.5	2	10	10	●	-	●	-	-	-	-	-	-	-	❖531C002MS	
<b>THREADED 5/2 - Solenoid air pilot operated - spring return (Single solenoid)</b>																		
1/4	6	0.95	15.5	2	10	10	●	-	●	-	-	-	-	-	-	-	❖531C017MS	
1/4	6	0.95	15.5	2	-	10	-	-	-	●	-	-	-	-	-	●	G531H317MO <sup>(2)</sup>	
1/4	6	0.95	15.5	2	10	10	-	-	-	-	●	-	●	●	-	-	8531B417MO	
1/4	6	0.95	15.5	2	10	10	-	●	-	●	-	-	-	●	-	●	G531H417MO	
<b>THREADED 5/2 - Solenoid air pilot operated and return (Double solenoid)</b>																		
1/4	6	0.95	15.5	2	10	10	●	-	●	-	-	-	-	-	-	-	❖531C018MS	
1/4	6	0.95	15.5	2	-	10	-	●	-	●	-	-	-	-	-	●	G531H318MO <sup>(2)</sup>	

● Available Express

(1) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation"

(2) DC only

❖ Stands for options "8" for NPT port thread and "G" for BSP port thread

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21



Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Prefix														No Prefix	Catalog Number			Options						
						Min. <sup>(1)</sup>	Max. (PS) Air	SC	VC	PV	WBLP	EF/VCEF <sup>(2)(3)</sup>	EV/VCEV <sup>(6)</sup>	NF/NFET	WSNF/WSNFET	JPIS/JSIS <sup>(5)</sup>	JKF/JKH	HT	HC		Stainless Steel	Aluminium	Brass							
																									~	=				
<b>THREADED 5/2 - Solenoid air pilot operated and return (Double solenoid)</b>																														
1/4	6	0.75	12.5	2	10	10	●	-	● <sup>(4)</sup>	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A018	-	MS	
1/4	6	0.75	12.5	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	◇551A422	-	MO	
1/4	6	0.75	12.5	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-	◇551G422	-	MO		
1/4	6	0.75	12.5	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	◇551B418	-	MO	
1/4	6	0.75	12.5	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	8551G418	-	MO	
1/4	6	0.75	12.5	0/4	10	10	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	G551H418	-	MO	
1/4	6	0.75	12.5	0/2	-	10	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	◇551A322 <sup>(6)</sup>	-	MO	
1/4	6	0.75	12.5	0/2	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551B322 <sup>(6)</sup>	-	MO	
1/4	6	0.75	12.5	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G322 <sup>(6)</sup>	-	MO	
1/4	6	0.75	12.5	0/2	-	10	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B318 <sup>(6)</sup>	-	MO
1/4	6	0.75	12.5	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551G318 <sup>(6)</sup>	-	MO
1/4	6	0.75	12.5	0/3	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551H318 <sup>(6)</sup>	-	-
1/4	6	0.75	12.5	0/3	-	10	●	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A320 <sup>(6)</sup>	MO	
1/4	6	0.75	12.5	0/3	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551B320 <sup>(6)</sup>	-	-
1/4	6	0.75	12.5	0/2	-	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G320 <sup>(6)</sup>	MO	
1/4	6	0.75	12.5	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	-	◇551G420	MO	
<b>NAMUR 3/2 NC - 5/2 - Solenoid air pilot operated - spring return (Single solenoid)</b>																														
1/4	6	0.6	10	2	10	10	●	-	● <sup>(4)</sup>	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A001	-	MS	
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	◇551B401	-	MO	
1/4	6	0.7	11.7	2	10	10	●	●	-	-	●	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	-	8551G401	-	MO
1/4	6	0.6	10	0/2	10	10	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551D401	-	MO	
1/4	6	0.6	10	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551H401	-	MO	
1/4	6	0.6	10	0/2	10	10	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551D403	MO	
1/4	6	0.6	10	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G403	MO		
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MO
1/4	6	0.6	10	0/2	10	10	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A409	-	MO	
1/4	6	0.6	10	0/2	10	10	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551D409	-	MO	
1/4	6	0.6	10	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G409	-	MO	
1/4	6	0.7	11.7	0/2	-	10	-	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B301 <sup>(6)</sup>	-	MO
1/4	6	0.7	11.7	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551G301 <sup>(6)</sup>	-	MO
1/4	6	0.7	11.7	0/3	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551H301 <sup>(6)</sup>	-	MO
1/4	6	0.6	10	0/2	-	10	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A303 <sup>(6)</sup>	MO	
1/4	6	0.6	10	0/2	-	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	8551B303 <sup>(6)</sup>	MO	
1/4	6	0.7	10	2	-	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G303 <sup>(6)</sup>	MO	
1/4	6	0.6	10	0/2	-	10	●	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MO	
1/4	6	0.6	10	0/2	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B309 <sup>(6)</sup>	-	MO	
1/4	6	0.6	10	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G309 <sup>(6)</sup>	-	MO
<b>NAMUR 3/2 NC - 5/2 - Solenoid air pilot operated and return (Double Solenoid)</b>																														
1/4	6	0.6	10	2	10	10	●	-	● <sup>(4)</sup>	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A002	-	MS	
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B402	-	MO
1/4	6.4	0.7	11.7	0/2	10	8.2	●	●	-	-	●	-	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	8551G402	-	MO
1/4	6.4	0.7	11.7	0/2	10	8.2	●	●	-	-	●	-	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	G551H402	-	MO
1/4	6	0.6	10	0/2	-	10	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551A304 <sup>(6)</sup>	MO	
1/4	6	0.7	11.7	2	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551B304 <sup>(6)</sup>	-	-
1/4	6	0.6	10	0/2	-	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G304 <sup>(6)</sup>	-	-
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G404	MO	
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MO
1/4	6	0.6	10	0/2	10	10	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A410	-	MO
1/4	6	0.6	10	0/2	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G410	-	MO
1/4	6	0.6	10	0/2	-	10	●	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B302 <sup>(6)</sup>	-	MO
1/4	6	0.7	11.7	2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8551G302 <sup>(6)</sup>	-	MO
1/4	6	0.6	10	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G551H302 <sup>(6)</sup>	-	MO
1/4	6	0.6	10	0/2	-	10	●	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551A310 <sup>(6)</sup>	-	MO
1/4	6	0.6	10	0/2	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551B310 <sup>(6)</sup>	-	MO
1/4	6	0.6	10	0/2	-	10	-	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	◇551G310 <sup>(6)</sup>	-	MO

● Available Express

(1) Zero minimum is only achieved if external pressure is applied

(2) ATEX certified VCEF & VCEV come with TPL24062

(3) Please refer to the page about "TECHNICAL INFORMATION - VCEF&VCEV Installation";

EF/VCEF for aluminum body only, EF/VCEF with SS body replaced by EV/VCEV

(4) TPL 20787 also available

(5) For JPIS/JSIS 551 with single solenoid, operating pressure differential is 2.4 to 9 bar. For JPIS/JSIS 551 with double solenoids, operating pressure differential is 2 to 9 bar.

(6) DC only

◇ Stands for options \*8" for NPT port thread and \*G" for BSP port thread

# ASCO™ Spool Valves

Aluminium, stainless steel or brass body,  
1/4" threaded and NAMUR

**3/2**  
**5/2**  
Series  
**551**

## Prefix Table

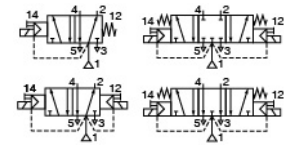
Prefix							Description	Power Level		
1	2	3	4	5	6	7		RP	MP	BP
E	F						Explosionproof - NEMA 7, 9 - Zinc plated steel conduit	-	-	●
V	C	E	F				Flameproof/Encapsulated - Aluminium NEPSI (GB3836)	●	-	●
V	C	E	V				Flameproof/Encapsulated - 316L SS NEPSI (GB3836)	●	-	●
P	V						Encapsulated epoxy moulded (EN/IEC 60079-18, 61241-18)*	-	-	●
S	C						Solenoid with spade plug connector (EN/IEC 60730)	-	-	●
N	F						Flameproof - Aluminium (EN/IEC 60079-1, 60079-31)*	-	-	●
W	S	N	F				Flameproof - 316L SS (EN/IEC 60079-1, 60079-31)*	-	-	●
W	B	L	P				I.S./encapsulation with PBT IP67 enclosure (EN/IEC 60079-7+18+21)	●	-	-
				H	T		Class H - High temperature, +80°C ambient temp.	-	-	●
J	P	I	S				Aluminum Junction Box with 1/2" NPT Conduit	-	-	-
J	S	I	S				316L SS Junction Box with 1/2" NPT Conduit	-	-	-
J	K	F					Class F High Temperature Spade or Screw Terminal Coils	-	-	-
J	K	H					Class H High Temperature Spade or Screw Terminal Coils	-	-	●
						X	Other special constructions	-	-	●

## Suffix Table

Suffix							Description	Power Level		
1	2	3	4	5	6	7		RP	MP	BP
			M	O			Push type manual operator	-	-	●

# ASCO™ Solenoid Valves

Pilot operated, spool type, single solenoid, aluminium body, 1/2"



**5/2**  
Series  
**553**

## Features

- The monostable spool valves have TÜV-EXIDA certified IEC 61508 functional safety data and can be used up to SIL 4 (551/TÜV)-SIL 3 (552-553/EXIDA)
- All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matter (environmentally-protected construction)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- The solenoid valves satisfy all relevant EC Directives



## Standard Voltages

DC (=) : 24V; 125V(HC)  
 AC (~) : SC, VC, EF/VCEF, EV/VCEV, Redhat II 110V/50Hz-120V/60Hz; 220V/50Hz-240V/60Hz  
 NF/WSNF 115V/50Hz; 120V/60Hz; 230V/50Hz

## Specifications

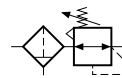
Pipe Size	Orifice Size (mm)	Flow Coefficient Kv (m³/h) (l/min)		Operating Pressure Differential (bar)			Power Level	Prefix						No Prefix	Catalog Number	Options
				Min. (1)	Max. (PS)			SC	PV	EF/VCEF	NF/NFET	WSNF/WSNFET	EV/VCEV			
					~	=										
1/2	13	3.15	52.5	0/2	10	10	BP	-	●	-	●	●	-	-	❖553A417	SL
1/2	13	3.15	52.5	0/2	10	10	BP	●	-	●	-	-	-	●	❖553G417	-
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G401(3)	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G402	MO
1/2	13	3.15	52.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G405(3)(4)	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	-	●	-	-	-	G553A413	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G413	MO
1/2	13	3.15	52.5	0/2	10	10	BP	-	-	-	●	-	-	-	G553A418	MO
1/2	13	3.15	52.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G418(3)(4)	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	-	●	-	-	-	G553A421	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G421	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	-	●	-	-	-	G553A422	MO
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	-	-	●	●	G553G422(3)	MO
1/2	13	3.15	52.5	0/2	-	10	LP	●	●	-	●	●	-	-	❖553A317(2)	SL
1/2	13	3.15	52.5	0/2	-	10	LP	-	-	●	-	-	-	●	❖553G317(2)	-
1/2	13	3.15	52.5	0/2	-	10	LP	-	-	●	-	-	-	●	❖553H317(2)	-
1/2	13	2.49	41.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A301(2)	MO
1/2	13	2.49	41.5	0/2	-	10	LP	-	-	●	-	-	●	●	G553G301(2)	MO
1/2	13	3.15	52.5	0/2	-	10	LP	-	-	●	-	-	●	●	G553G305(2)	-
1/2	13	3.15	52.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A318(2)	MO
1/2	13	3.15	52.5	0/2	-	10	LP	-	-	●	-	-	●	●	G553G318(2)	MO
1/2	13	3.15	52.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A367(2)	MO
1/2	13	2.49	41.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A313(2)	MO/SL
1/2	13	2.49	41.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A321(2)	MO/SL
1/2	13	2.49	41.5	0/2	-	10	LP	-	-	●	-	-	●	●	G553G321(2)	MO
1/2	13	2.49	41.5	0/2	-	10	LP	●	-	-	●	●	-	-	G553A322(2)	MO
1/2	13	2.49	41.5	0/2	-	10	LP	-	-	●	-	-	●	●	G553G322(2)	MO

- Available Express
- ❖ Stands for options "8" for NPT port thread and "G" for BSP port thread
- (1) Zero minimum is only achieved if external pressure is applied
- (2) DC only
- (3) TPL 24047 also available
- (4) TPL 24062 also available

10 Days Asia Pacific QuickShip Catalog C1000086ENUS-07\_05-21

# ASCO™ Filter Regulator

Stainless steel 316L,  
compact 1/4", high flow 1/2" - 1/2"



Series  
**342**

## Features

- Stainless steel filter, regulator and filter regulator intended for corrosive environment and suitable for use in potentially explosive atmosphere caused by gases, vapours, mists and / or dust according to: (ATEX directive 2014/34/EU).

SAFETY CODE:

⊕ II 2GD IIC T100°C (T5), with 90°C ambient temperature

⊕ II 2GD IIC T85°C (T6), with 75°C ambient temperature

(ZONE 1-21) Explosion group IIC

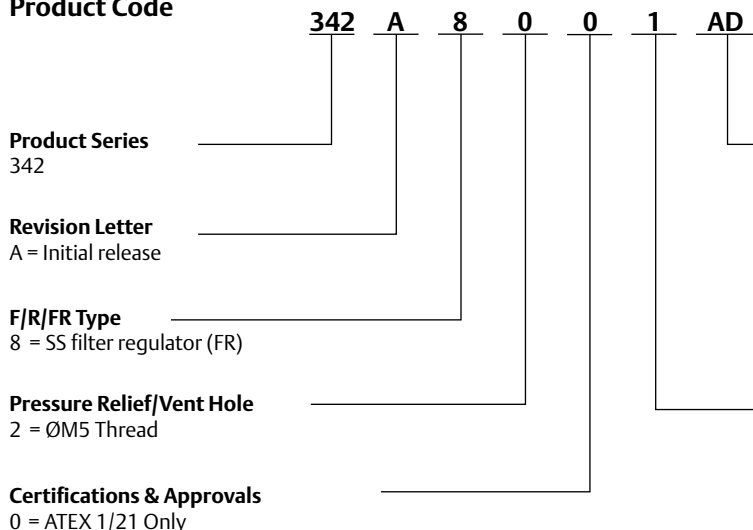
- Functional safety: IEC 61508, SIL certified
- Comply with the European essential health and safety requirements (EN13643-1)
- All internal metal parts made of 316 / 316L stainless steel
- Built-in overpressure relieving function, non-relieving option available
- 316L Stainless steel body, bonnet and bowl
- Internal springs made of INCONEL® to suit sour gas environment complying to NACE MR0175 / ISO 15156\*

\* Available for High Flow SSFR as an option

INCONEL is trademark of the Special Metals Corporation group of companies



## Product Code



### Options

- AD = Automatic drain
- AN = Automatic drain with 1/8" NPT Adapter
- G = 316 SS pressure gauge <sup>(1)(2)</sup>
- MB = 316L SS mounting bracket <sup>(2)</sup>
- AD + AN is not a possible combination

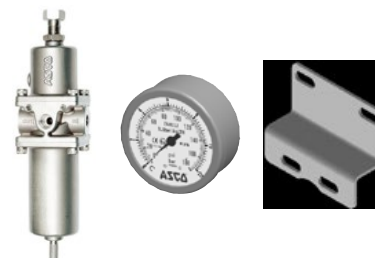
<sup>(1)</sup> For Compact SSFR, a 316 SS pressure gauge with Ø50mm dial and 1/8" NPT gauge port will be delivered.  
<sup>(2)</sup> Not mounted onto the product. Separate packaging.

### Filtration/Port Size

- 1 = High flow 1/4" NPT 25 µm or regulator only
- 3 = High flow 1/2" NPT 25 µm or regulator only
- 5 = High flow 1/4" NPT 5 µm
- 7 = High flow 1/2" NPT 5 µm
- 9 = Compact basic flow 1/4" NPT 25 µm
- B = Compact basic flow 1/4" NPT 5 µm

## Ordering Example

- High-Flow stainless steel filter regulator (1/4 NPT, 25 µm filtration) with auto drain, pressure gauge & mounting bracket
  - Product Code: 342A8201ADGMB
- Compact low temperature stainless steel filter regulator (1/4 NPT, 25 µm filtration) with low temperature pressure gauge & mounting bracket
  - Product Code: 342A8209GLTMB

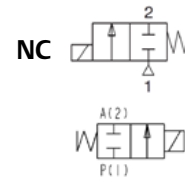


## Maximum Flow Values

Construction Type	Maximum Flow Values Following ISO Standards 5782, 6358 and 6953	Compact		High Flow			
		Litres Per Minute (ANR)					
		1/4 NPT		1/4 NPT		1/2 NPT	
		5 µm	25 µm	5 µm	25 µm	5 µm	25 µm
Filter	Inlet pressure = 6.3 bar and ΔP = 1 bar	-	-	1780	2600	1800	3300
Regulator	Inlet pressure = 10 bar, setpoint = 6.3 bar and ΔP = 1 bar	-	-	3120		7800	
Filter Regulator	Inlet pressure = 10 bar, setpoint = 6.3 bar and ΔP = 1 bar	1280	1400	2380	2450	3920	4430

# ASCO™ Solenoid Valves

Direct acting, brass or stainless steel bodies, G 1/8"



**2/2**  
Series  
**L172**  
**L176**

## Features

- Direct acting solenoid valve.
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact).
- Better performance with epoxy coil under moist & high temperature environment



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

Port Size ISO 228	Orifice Size (mm)	Differential Pressure (bar)				Kv (m <sup>3</sup> /h)	Series and Type			Power Absorption				Sealings	Weight (kg)
		Δp Max					Body	Valve	Coil	AC (VA)			DC W		
		Gases		Liquids						Inrush VA	VA	W			
G1/8	1.2	0	28	20	28	20	Brass	L172V03	ZB12AX	12	6	4	5.5	FPM	0.16
	1.6		20	12	20	12									
	2		15	6	15	6									
	2.4		12	4	12	4									
	1.2		28	20	28	20	Stainless steel	L172V07	ZB12AX	12	6	4	5.5	FPM	0.145
	1.6		20	12	20	12									
	2		15	6	15	6									
	2.4		12	4	12	4									
G1/4	1.6	0	20	12	20	12	Brass	L176V03	ZB12AX	12	6	4	5.5	FPM	0.16
	2.4		12	4	12	4									
	1.6		20	12	20	12	Stainless steel	L176V07							
	2.4		12	4	12	4									

# ASCO™ Solenoid Valves

Normally closed/normally open, pilot operated



2/2  
Series  
**L182**  
**L282**

## Features

- Diaphragm valve, pilot operated, having full orifice
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact.)
- Better performance with epoxy coil under moist & high temperature environment (for N.C)
- High flow, long life
- Easy maintenance



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

Port Size ISO 228	Orifice Size (mm)	Differential Pressure (bar)				Kv (m <sup>3</sup> /h)	Series and Type		Power Absorption				Sealing	Weight (kg)												
		Δp (kg) Min	Δp Max		Valves		Coil	AC (VA)			DC W															
			Gases	Liquids				Inrush VA	Holding VA W																	
			AC	DC	AC	DC																				
<b>NC - Normally closed, Brass body</b>																										
G3/8	13.5	0.35	16	16	16	16	2.5	L182B01	ZB12AX	12	6	4	5.5	NBR	0.32											
G1/2	13.5		16	16	16	16	3.8								0.38											
G3/4	18		12	12	12	12	5								0.52											
G1	24		12	12	12	12	12								1.08											
G3/8	13.5		12	12	12	12	2.5	L182V01						ZB12AX	12	6	4	5.5	FPM	0.32						
G1/2	13.5		12	12	12	12	3.8													0.38						
G3/4	18		10	10	10	10	5													0.52						
G1	24		10	10	10	10	12													1.08						
G3/8	13.5		16	16	16	16	2.5	L182D01											ZB12AX	12	6	4	5.5	EPDM	0.32	
G1/2	13.5		16	16	16	16	3.8																		0.38	
G3/4	18		12	12	12	12	5																		0.52	
G1	24		12	12	12	12	12																		1.08	
<b>NC - Normally closed, Stainless Steel Body</b>																										
G3/8	13.5	0.35	12	12	12	12	2.5	L182V09	ZB12AX	12	6	4	5.5											FPM	0.32	
G1/2	13.5		12	12	12	12	3.8																		0.38	
G3/4	18		10	10	10	10	5																		0.52	
G1	24		10	10	10	10	12							1.08												
G3/8	13.5		16	16	16	16	2.5	L182D09						ZB12AX	12	6	4	5.5						EPDM	0.32	
G1/2	13.5		16	16	16	16	3.8																		0.38	
G3/4	18		12	12	12	12	5																		0.52	
G1	24		12	12	12	12	12												1.08							
<b>NO - Normally open, Stainless Steel Body</b>																										
G3/8	13.5		0.35	12	-	12	-	2.5											L282V09	ZB12K	11.7	10	7.6	-	FPM	0.3
G1/2	13.5			12	-	12	-	3.8																		0.35
G3/4	18			10	-	10	-	5																		0.5
G1	24	10		-	10	-	12	1.09																		
G3/8	13.5	-		12	-	12	2.5	0.37																		
G1/2	13.5	-		12	-	12	3.8	0.41																		
G3/4	18	-		10	-	10	5	0.56																		
G1	24	-		10	-	10	12	1.16																		

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

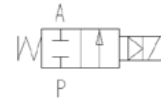
**Specifications**

Port Size ISO 228	Orifice Size (mm)	Δp (kg) Min	Differential Pressure (bar)				Kv (m <sup>3</sup> /h)	Series and Type		Power Absorption				Sealing	Weight (kg)					
			Δp Max					Valves	Coil	AC (VA)			DC W							
			Gases		Liquids					Inrush VA	Holding									
			AC	DC	AC	DC					VA	W								
<b>NO - Normally open, Brass body</b>																				
G3/8	13.5	0.35	-	12	-	12	2.5	L282B01	ZC10A ZC12A	-	-	-	5.5	NBR	0.32					
G1/2	13.5		-	12	-	12	3.8								0.38					
G3/4	18		-	12	-	12	5								0.52					
G1	24		-	12	-	12	12								1.08					
G3/8	13.5		12	-	12	-	2.5		ZB10K ZB12K						11.7	10	7.6	-	FPM	0.32
G1/2	13.5		12	-	12	-	3.8													0.38
G3/4	18		12	-	12	-	5													0.52
G1	24		10	-	10	-	10													1.08
G3/8	13.5	0.35	-	12	-	12	2.5	L282V01	ZC10A ZC12A	-	-	-	5.5	FPM						0.32
G1/2	13.5		-	12	-	12	3.8													0.38
G3/4	18		-	10	-	10	5													0.52
G1	24		-	10	-	10	12													1.08
G3/8	13.5		12	-	12	-	2.5		ZB10K ZB12K						11.7	10	7.6	-	FPM	0.32
G1/2	13.5		12	-	12	-	3.8													0.38
G3/4	18		10	-	10	-	5													0.52
G1	24		10	-	10	-	12													1.08

Note: B(NBR)=Nitrile-butylene elastomer V(FPM)=Fluoro-carbon elastomer D(EPDM)=Ethylene-propylene elastomer

# ASCO™ Solenoid Valves

Normally closed, pilot operated



**2/2**  
Series  
**L182 BIG**

## Features

- Diaphragm valve, pilot operated, having full orifice
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact.)
- High flow, long life
- Easy maintenance



## Standard Voltages

DC (=) : 24V

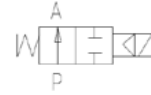
AC (~) : 220V/50Hz-240V/60Hz

## Specifications

Port Size ISO 228	Orifice Size (mm)	Differential Pressure (bar)				Kv (m <sup>3</sup> /h)	Series and Type			Power Absorption			Sealings	Weight (kg)						
		Δp Min	Δp Max		Valve		Valve with Manual Override	Coil	AC (VA)		DC (W)									
			Gases	Liquids					Inrush	Holding										
			AC	DC	AC	DC														
G1 1/4	30	0.50	10	10	10	10	L182BB01	L182BB02	ZA10A	23	14	9	NBR (diaphragm) FPM (actuator)	1.59						
G1 1/2	45													2.51						
G2	45													2.99						
G1 1/4	30												L182VB01	L182VB02	ZA10A	23	14	9	FPM	1.59
G1 1/2	45																			2.51
G2	45																			2.99

# ASCO™ Solenoid Valves

Normally closed, pilot operated



**2/2**  
Series  
**L282 BIG**

## Features

- Diaphragm valve, pilot operated, having full orifice
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact.)
- High flow, long life
- Easy maintenance



## Standard Voltages

DC (=) : 24V

AC (~) : 220V/50-240V/60Hz

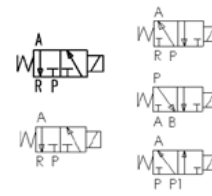
## Specifications

Port Size ISO 228	Orifice Size (mm)	Differential Pressure (bar)				Kv (m <sup>3</sup> /h)	Series and Type		Power Absorption				Sealing	Weight (kg)	
		$\Delta p$ (kg) Min	$\Delta p$ Max				Valves	Coil	AC (VA)			DC			
			Gases		Liquids				Inrush VA	Holding					
			AC	DC	AC					DC	VA				W
<b>NO - Normally open, Brass Body</b>															
G1 1/4	30	0.5	10	-	10	-	15	L282B48	ZA10Y	28	20	-	-	NBR	1.59
G1 1/2	45		9	-	9	-	27								2.51
G2	45		9	-	9	-	34								2.99
G1 1/4	30		-	10	-	10	15		ZA10A	-	-	-	9		1.59
G1 1/2	45		-	9	-	9	27								2.51
G2	45		-	9	-	9	34								2.99

Note: B(NBR)=Nitrile-butylene elastomer

# ASCO™ Solenoid Valves

Direct acting, brass or stainless steel bodies, G 1/8"



**3/2**  
Series  
**L372**  
**L376**

## Features

- Direct acting solenoid valve
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact)
- Better performance with epoxy coil under moist & high temperature environment



## Standard Voltages

DC (=) : 24V

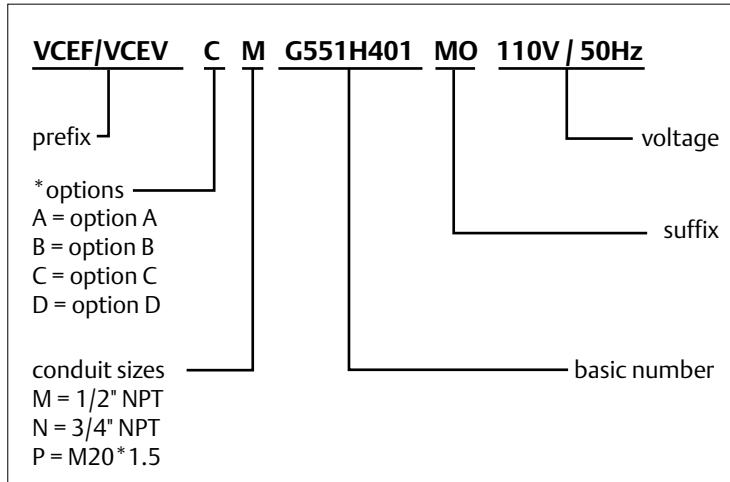
AC (~) : 115V/50Hz-120V/60Hz; 230V/50-60Hz

## Specifications

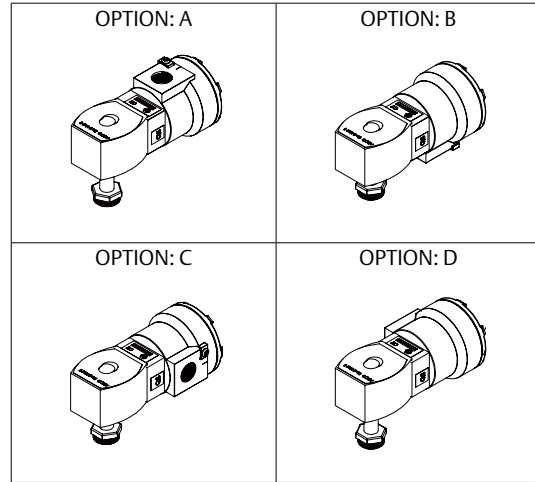
Port Size ISO 228	Orifice Size (mm)		Differential Pressure (bar)				Kv (m <sup>3</sup> /h)		Series and Type			Power Absorption				Sealings	Weight (kg)	
			Δp Min	Δp Max								AC (VA)		DC W				
				Gases		Liquids		Inrush VA	Holding									
				c.a.	c.c.	c.a.	c.c.		1↔2	1↔3	VA	VA	W					
<b>NC - Normally closed</b>																		
G1/8	1.2	1.2	0	15	15	15	15	0.05	0.05	Brass	L372V03C	ZB12AX	12	6	4	5.5	FPM	0.155
	1.6	1.2		10	10	10	10	0.08	0.05									
	2	1.2		5	5	5	5	0.1	0.05									
	2.4	1.2		4	4	4	4	0.13	0.05									
G1/8	1.2	1.2	0	15	15	15	15	0.05	0.05	Stainless steel	L372V07C	ZB12AX	12	6	4	5.5	FPM	0.14
	1.6	1.2		10	10	10	10	0.08	0.05									
	2	1.2		5	5	5	5	0.1	0.05									
	2.4	1.2		4	4	4	4	0.13	0.05									
G1/4	1.6	1.2		10	10	10	10	0.08	0.05	Brass	L376V03C	ZB12AX	12	6	4	5.5	FPM	0.205
	2.4	1.2	0	4	4	4	4	0.14	0.05									
	1.6	1.2		10	10	10	10	0.08	0.05	Stainless steel	L376V07C							
	2.4	1.2		4	4	4	4	0.14	0.05									

## Ordering Examples Valves

Add prefix corresponding to specific conduit size required to any RedHat II valve catalog number & specify the voltage.



\*options

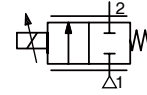


## Installation

- Installation/Maintenance instructions are included with each valve
- The solenoid operators can be mounted in any position without affecting operation
- For optimum life and performance, the solenoid should be mounted vertically and upright to reduce the possibility of foreign matter accumulating in the solenoid base sub-assembly area
- Internal and external earthing connection

# ASCO™ Proportional Solenoid Valves

Preciflow 12.7mm



Series  
**202**

## Features

- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (< 5%), excellent repeatability (< 1%), and high sensitivity (< 0.1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- Power consumption as low as 1 W to meet the most stringent instrument power requirements
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Gas Chromatography
  - Mass Flow Controllers
  - Dental Equipment
  - Blood Pressure Monitoring



## Standard Voltages

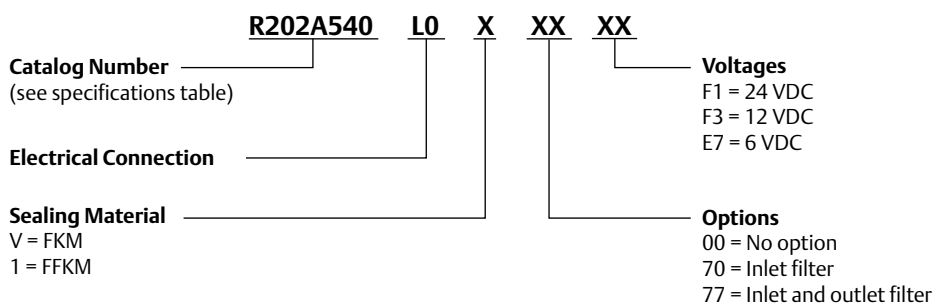
### Tubing minimum wall

DC (=) : 12V-24V

## Specifications

Orifice Size (mm)	Flow Coefficient		Operating Pressure Differential Bar (psi)		Power Coil (W)	Catalog Number Pad Mount Version
	Kv(m <sup>3</sup> /h)	CV	Min.	Max.		
0.045	0.00006	0.00007	-0.9 (-13)	10 (145)	1	R202A540L0xxxx
0.07	0.00012	0.00014	-0.9 (-13)	10 (145)	1	R202A541L0xxxx
0.1	0.0003	0.00035	-0.9 (-13)	10 (145)	1	R202A542L0xxxx
0.2	0.0012	0.00139	-0.9 (-13)	10 (145)	1	R202A543L0xxxx
0.4	0.0048	0.0055	-0.9 (-13)	10 (145)	2.5	R202A544L0xxxx
0.6	0.0096	0.0111	-0.9 (-13)	10 (145)	2.5	R202A545L0xxxx
0.8	0.018	0.0208	-0.9 (-13)	10 (145)	2.5	R202A546L0xxxx

## How to Order

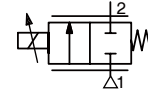


Ordering Example: R202A542L0V00F1 = 2-way NC (normally closed), orifice size 0.1mm, with lead wires L=500mm, FKM seal, 24 VDC

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Proportional Solenoid Valves

Preciflow 22mm



Series  
**202**

## Features

- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (< 3%), excellent repeatability (< 1%), and high sensitivity (< 1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Respiratory Therapy
  - Blood Pressure Monitoring
  - Gas Chromatography
  - Anesthesia Delivery



## Standard Voltages

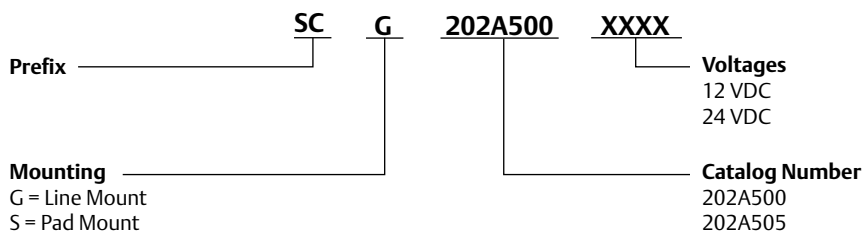
### Tubing minimum wall

DC (=) : 12V-24V

## Specifications

Connection	Orifice Size (mm)	Flow Coefficient		Operating Pressure Differential (Bar)		Power Coil (W)	Catalog Number
		Kv(m <sup>3</sup> /h)	CV	Min.	Max.		
G 1/8	0.8	0.018	0.021	-0.9	10	5	SCG202A510
	1.2	0.041	0.047	-0.9	10	5	SCG202A511
	1.6	0.071	0.082	-0.9	8	5	SCG202A512
	2	0.096	0.111	-0.9	6	5 (12V) / 9(24V)	SCG202A513

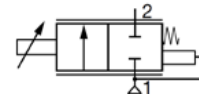
## How to Order



10 Days Asia Pacific QuickShip Catalog CT0000086ENIUS-07\_05-21

# ASCO™ Proportional Valves

Preciflow IPC Valve



Series  
**202**

## Features

- Preciflow IPC (Inlet Pressure Compensated) solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (typ. < 5%), excellent repeatability (typ. < 1%), and high sensitivity (typ. < 1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space
- Specialized seal design and long-life expectancy
- Power consumption as low as 2.5W to meet the most stringent instrument power requirement
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Respiratory Therapy
  - Gas Chromatography
  - Blood Pressure Monitoring
  - Anesthesia Delivery



## Standard Voltages

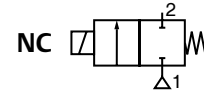
DC (=) : 6V, 12V, 24V

## Specifications

Voltage	Max. Operating Current	Power Ratings				Ambient Temperature Ranges (°C)	Catalog Number
		Inrush	Holding		Hot/Cold		
V	mA	VA	VA	W	W		
6	420	-	-	-	2.5	10 to 50	X202544750001E7
12	210						X202544750001F3
24	110						X202544750001F1

# ASCO™ Miniature Valve Manifold

Diaphragm mechanism, fluid isolation,  
M6 & 1/4 - 28 UNF



2/2  
Series  
**082**  
**X082**

## Features

- Series 082 solenoid valves are designed for use with neutral or highly aggressive liquids in analytical and medical systems
- The PVDF body and the separating diaphragm isolates the internal solenoid components from the media resulting in a virtually impervious valve
- Good self-draining capability and low-volume internal cavity to minimize cross-contamination
- Low power consumption results in less heat transfer to thermally sensitive reagents and samples
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Water Analyzers
  - Clinical Diagnostics
  - DNA Sequencing



## Standard Voltages

DC (=) : 12V-24V

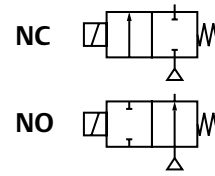
## Specifications

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)			Power Coil (W)	Catalog Number
				Min.	Max. (PS)			
					Air, Inert Gases	Liquids		
(mm)	(m <sup>3</sup> /h)	(l/min)	=	=	=			
<b>NC - Normally closed</b>								
SERIES 082, 2-WAY NC ISOLATION VALVE, DIN, FFKM, 24DC	1.5	0.03	0.5	0	2	2	2.5	7082A100S1100F1
SERIES 082, 2-WAY NC ISOLATION VALVE, DIN, FFKM, 12DC								7082A100S1100F3
SERIES 082, 2-WAY NC ISOLATION VALVE, DIN, FKM, 24DC								7082A100S1V00F1
SERIES 082, 2-WAY NC ISOLATION VALVE, DIN, FKM, 12DC								7082A100S1V00F3
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, open hole, 1/4-28, 8° FPM								X082433248003F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, blind hole, 1/4-28, 7° FPM, 1° FFPM(1)								X082433248006F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, open hole, 1/4-28, 8° FFPM								X082433248008F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, open hole, 1/4-28, 6° FPM, 2° FFPM(1,2), PFA								X082433248009F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, blind hole, M6, 5° FPM, 3° FFPM(4,5,6)								X082433248010F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, open hole, 1/4-28, 7° FPM, 1° FFPM(4)								X082433248011F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, blind hole, 1/4-28, 8° FPM								X082433248012F1
X082 8-STATIONS 24DC, MANIFOLD, X082 8-STATIONS 24DC, blind hole, 1/4-28, 5° FPM, 3° FFPM(1,2,3)								X082433248013F1
X082 4-STATIONS 12DC, MANIFOLD, X082 4-stations 12DC, blind hole, 5° 1/4-28, FPM diaphragm, PVDF valve body								X082433251001F3
X082 4-STATIONS 24DC, MANIFOLD, X082 4-STATIONS 24DC, blind hole, 5° 1/4-28, FPM, PVDF, 2.5W								X082433251007F1

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Pinch Solenoid Valves

Pinch mechanism, for flexible tube,  
O.D. 3.2 mm



**2/2**  
Series  
**284**

## Features

- Solenoid valve suitable for cutting off the flow of a fluid by pinch
- For sterile, aseptic, physiological and food applications
- No turbulence or gap when cutting off flow by pinch
- Silent operation
- Full bore output flow compared with a traditional solenoid valve
- Manual pulse control for fitting tube
- A single component in contact with the fluid, i.e. the tube
- Bi-directional flow
- The tubings are included in our supply, 30cm length
- The solenoid valves satisfy all relevant EC directives



## Standard Voltages

DC (=) : 12V-24V

## Specifications

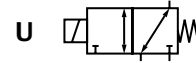
Tube I.D. (mm)	Tube O.D. (mm)	Pinch Force (daN)	Operating Pressure Differential (bar)		Power Coil (W)		Mounting Flange (mm)	Catalog Number	
			Min.	Max. (PS)		~			=
				Air Inert Gas (*)	Liquids (*)				
				=	=			=	
1.6	3.2	0.28	0	1.5	1.5	-	2.8	26	P284A020LCA00V1 P284A020LCA00V3 P284A021LCA00V1 <sup>(1)</sup> P284A021LCA00V3 <sup>(1)</sup>
1.6	3.2	0.6	0	1.5	1.5	-	2.8	26	P284A022LCA00V1 P284A022LCA00V3 P284A023LCA00V1 <sup>(1)</sup> P284A023LCA00V3 <sup>(1)</sup>
1.6	3.2	0.6	0	1.5	1.5	-	2.8	33	P284A026LCA00V1 P284A026LCA00V3 P284A027LCA00V1 <sup>(1)</sup> P284A027LCA00V3 <sup>(1)</sup>
1.6	3.2	0.28	0	1.5	1.5	-	2.8	33	P284A028LCA00V1 P284A028LCA00V3 P284A029LCA00V1 <sup>(1)</sup> P284A029LCA00V3 <sup>(1)</sup>

(1) the flange mounting position is in parallel with tubing

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO™ Pinch Solenoid Valves

Pinch mechanism, for flexible tube,  
O.D. 3.2 mm



**3/2**  
Series  
**384**

## Features

- Solenoid valve suitable for cutting off the flow of a fluid by pinch
- For sterile, aseptic, physiological and food applications
- No turbulence or gap when cutting off flow by pinch
- Silent operation
- Full bore output flow compared with a traditional solenoid valve
- Manual pulse control for fitting tube
- A single component in contact with the fluid, i.e. the tube
- Bi-directional flow
- The tubings are included in our supply, 30cm length
- The solenoid valves satisfy all relevant EC directives



## Standard Voltages

DC (=) : 12V-24V

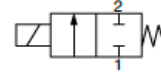
## Specifications

Tube I.D. (mm)	Tube O.D. (mm)	Pinch Force (daN)	Min.	Operating Pressure Differential (bar)		Power Coil (W)		Mounting Flange (mm)	Catalog Number
				Max. (PS)		~	=		
				Air Inert Gas (*)	Liquids (*)				
				=	=				=
1.6	3.2	0.22	0	1.5	1.5	-	3.5	26	P384A024LCA00V1
									P384A024LCA00V3
									P384A025LCA00V1 <sup>(1)</sup>
								33	P384A025LCA00V3 <sup>(1)</sup>
									P384A030LCA00V1
									P384A030LCA00V3
P384A031LCA00V1 <sup>(1)</sup>									
P384A031LCA00V3 <sup>(1)</sup>									

(1) the flange mounting position is in parallel with tubing

# ASCO™ Pinch Solenoid Valves

2/2 Normally Closed



Series  
**S104**

## Features

- Pinch solenoid valve, suitable to shut off media without producing neither turbulent flows, nor dead spaces.
- High flow rate under the same conditions of internal diameter of different solenoid valves; the system allows a bi-directional through flow
- The valves are suitable for soft SILICONE tubings or others, similar as to elasticity and hardness (50 shore A).
- Silent model.
- The tubing is the only material in contact with the fluid.



## Standard Voltages

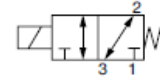
DC (=) : 12-24V (+10% -5%)

## Specifications

Tubings		Tubing Minimum Wall (mm)	Pinching Strength (kg)	Series and Type		Power Coil (W)	Weight (kg)
I.D. (mm)	O.D. (mm)			Valve	Coil		
1.57	3.18	0.7	0.22	S104-09	ZE30A	4	0.05

# ASCO™ Pinch Solenoid Valves

3/2 Normally Closed - Normally Open



Series  
**S305**

## Features

- Pinch solenoid valve, suitable to shut off media without producing neither turbulent flows, nor dead spaces.
- One tubing is normally closed (NC) while the other one is normally open (NO).
- High flow rate under the same conditions of internal diameter of different solenoid valves; the system allows a bi-directional through flow
- The valves are suitable for soft SILICONE tubings or others, similar as to elasticity and hardness (50 shore A).
- The tubing is the only material in contact with the fluid.



## Standard Voltages

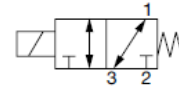
DC (=) : 12-24V (+10% -5%)

## Specifications

Tubings		Tubing Minimum Wall (mm)	Pinching Strength (kg)	Series and Type		Power Coil (W)	Weight (kg)
I.D. (mm)	O.D. (mm)			Valve	Coil		
1.57	3.18	0.7	0.22	S305-07	ZE30H	8	0.05

# ASCO™ Micro Solenoid Valves - Dry

3/2 UF - Direct Acting - Total Isolation



Series  
**D351**

## Features

- Total isolation micro solenoid valve: the actuator is totally isolated from the fluid so that the wetted parts are just the body and the diaphragm.
- Reduced internal volume: 67µl. Possibility of disassembling for inspection.
- The parts subject to sliding friction are duly coated by PTFE (polytetrafluoroethylene) based self lubricant material
- Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with materials in contact).
- Typical applications include:
  - In-vitro Diagnostics
  - Scientific instrumentation
  - Analyzers
  - Surgical Fluid Management



## Standard Voltages

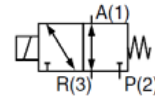
DC (=) : 12-24V (+10% -5%)

## Specifications

Port Size	Orifice Size (mm)	Flow Coefficient Kv(m <sup>3</sup> /h)	Sealings	Operating Pressure Differential (bar)		Power Coil (W)	Catalog Number
				Min.	Max.		
					Gas, Liquid		
Sub-base	1.5	0.03	EPDM	0	2.4	4.0	D351D01G
Sub-base			FPM				D351V01G
¼-28 UNF			FPM				D351V02G

# ASCO™ Miniature Valves

Rocker mechanism, fluid isolation, pad mounting body



**3/2**  
Series  
**385**

## Features

- Valves for invitro diagnostics in biochemistry, hematology and immunology
- Can be used to control acids and bases, as well as analytical reagents
- The valves have easy-to-flush internal cavities and are ideal for controlling aggressive fluids or when high purity is demanded
- Very low internal volume
- Hermetic separation of control mechanism and fluid
- Reduced heat exchange between coil and fluid
- The use of first class materials and thorough valve testing ensure high reliability and a lifetime of at least 1 million cycles
- Suitable for vacuum applications



## Standard Voltages

DC (=) : 12V-24V

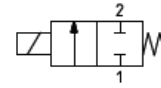
## Specifications

Pipe Size	Orifice Size (mm)	Flow Coefficient Kv (m <sup>3</sup> /h) (l/min)		Operating Pressure Differential (bar)				Power Coil (W)		Prefix	Catalog Number	
				Min.	Max. (PS)		~					=
					Gases (*)	Liquids (*)						
					=	=			SC	=		
<b>U - Universal, PA body, EPDM seals</b>												
pad mount	1.5	0.03	0.5	0	2	2	-	4	●	S385A002E		

● Available Express

# ASCO™ Mini-Solenoid Valves

RB series miniature valve



**2/2**  
Series  
**RB**

## Features

- Tested in excess of 500 million cycles
- Maximum leakage rate: 0.3 SCCM (Bubble Tight)
- All valves 100% factory tested
- Class A insulated coils
- Circuit board mountable
- Built in barbed fittings
- Oxygen Clean available
- Recommended for use with dry air, lubricated air, vacuum, non-corrosive, non-toxic, non-flammable dry gases
- Consult factory for other service application



## Standard Voltages

DC (=) : 5V, 12V, 24V

## Specifications

Connection	Orifice Size mm (inches)	Flow Coefficient		Operating Pressure Differential Bar (Psi)		Power Coil (W)	Catalog Number
		Kv(m³/h)	CV	Min.	Max.		
					Air, Inert Gas		
<b>2/2 NC - Normally Closed</b>							
10-32 UNF Stud Manifold Mount, Brass (M)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	0.5	RLM20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHM20xx30x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	1.0 (15)	0.5	RLM20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	3.4 (50)	1.0	RMM20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	6.9 (100)	2.0	RHM20xx50x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.0 (15)	2.0	RHM20xx80x
10-32 UNF Female In-Line, Brass (L)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	0.5	RLL20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHL20xx30x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	1.0 (15)	0.5	RLL20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	3.4 (50)	1.0	RML20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	6.9 (100)	2.0	RHL20xx50x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.0 (15)	2.0	RHL20xx80x
3.17mm (0.125in) Push-in Hose Connecton PBT (B)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	1.0 (15)	0.5	RLB20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	1.0	RMB20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHB20xx30x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	0.7 (10)	0.5	RLB20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	2.4 (35)	1.0	RMB20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	4.8 (70)	2.0	RHB20xx50x
Pad Mount, PBT (F)	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.7 (25)	2.0	RHB20xx80x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	1.0 (15)	0.5	RLF20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	1.0	RMF20xx30x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHF20xx30x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	0.7 (10)	0.5	RLF20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	2.4 (35)	1.0	RMF20xx50x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	4.8 (70)	2.0	RHF20xx50x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.7 (25)	2.0	RHF20xx80x

## How to Order

**Catalog Number** ——— **RLM20** **x** **x** **30** **x**

**Voltages** ———  
 4 = 5 VDC  
 6 = 12 VDC  
 7 = 24 VDC

**Electrical Connection** ———  
 H = Lead wires  
 P = PCB pins (circuit board)

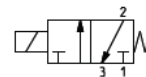
**Sealing Material**  
 V = FKM  
 B = NBR  
 O = Oxygen service (FKM)

**Base Number**  
 (see Specifications table)

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# ASCO™ Mini-Solenoid Valves

RB series miniature valve



**3/2**  
Series  
**RB**

## Features

- Tested in excess of 500 million cycles
- Maximum leakage rate: 0.3 SCCM (Bubble Tight)
- All valves 100% factory tested
- Class A insulated coils
- Circuit board mountable
- Built in barbed fittings
- Oxygen Clean available
- Recommended for use with dry air, lubricated air, vacuum, non-corrosive, non-toxic, non-flammable dry gases
- Consult factory for other service application



## Standard Voltages

DC (=) : 5V, 12V, 24V

## Specifications

Connection	Orifice Size mm (inches)	Flow Coefficient		Operating Pressure Differential Bar (Psi)		Power Coil (W)	Catalog Number
		Kv(m³/h)	CV	Min.	Max.		
					Air, Inert Gas		
<b>3/2 NC - Normally Closed</b>							
10-32 UNF Stud Manifold Mount, Brass (M)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	0.5	RLM3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHM3xxx34x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	1.0 (15)	0.5	RLM3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	3.4 (50)	1.0	RMM3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	6.9 (100)	2.0	RHM3xxx55x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.0 (15)	2.0	RHM3xxx85x
10-32 UNF Female In-Line, Brass (L)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	0.5	RLl3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHL3xxx34x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	1.0 (15)	0.5	RLl3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	3.4 (50)	1.0	RML3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	6.9 (100)	2.0	RHL3xxx55x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.0 (15)	2.0	RHL3xxx85x
3.17mm (0.125in) Push-in Hose Connecton PBT (B)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	1.0 (15)	0.5	RLB3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	1.0	RMB3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHB3xxx34x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	0.7 (10)	0.5	RLB3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	2.4 (35)	1.0	RMB3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	4.8 (70)	2.0	RHB3xxx55x
Pad Mount, PBT (F)	0.8 (0.031)	0.33	0.011	-0.9 (-13)	1.0 (15)	0.5	RLF3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	3.4 (50)	1.0	RMF3xxx34x
	0.8 (0.031)	0.33	0.011	-0.9 (-13)	6.9 (100)	2.0	RHF3xxx34x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	0.7 (10)	0.5	RLF3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	2.4 (35)	1.0	RMF3xxx55x
	1.30 (0.051)	0.99	0.033	-0.9 (-13)	4.8 (70)	2.0	RHF3xxx55x
	2.00 (0.079)	1.68	0.056	-0.9 (-13)	1.7 (25)	2.0	RHF3xxx85x

## How to Order

**Catalog Number**     RLM3     X     X     X     30     X

**Port 3 Style**  
B = 3.2mm (0.125in) push-in hose connection  
F = 10-32 UNF female

**Voltages**  
4 = 5 VDC  
6 = 12 VDC  
7 = 24 VDC

**Sealing Material**  
V = FKM  
B = NBR  
O = Oxygen service (FKM)

**Base Number**  
(see Specifications table)

**Electrical Connection**  
H = Lead Wires  
P = PCB pins (circuit board)

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

## Features

- Side sensing
- Gold flashed contacts
- Detects ferrous metal or magnetic targets (N)
- 304 stainless steel or coated brass enclosures
- Single Pole Double Throw (SPDT)
- Simple apparatus
- ½" NPT conduit entry
- Operating temperature: -50°C to 105°C



## Specifications

Power Rating	Initial Contact Resistance	Hysteresis (Differential)	Sensing Range	Outlet Position	Enclosure Material	Wiring Options	Area Classification	Catalog Number
3A/24VDC, 10A/120VAC	0.5 Ohm	8mm (5/16")	14mm (9/16")	Behind Sensing Area	304 Stainless Steel	Terminal Block ½" - 14 NPT	CSA/FM Cl I, Div 2, Groups A-D; Cl II, Div 1, Groups E-G; Cl III	11-12120-00

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

## Features

- End Sensing
- Gold flashed contacts
- Detects ferrous metal or magnetic targets (N)
- 304 stainless steel or coated brass enclosures
- Double Pole Double Throw (DPDT)
- Simple apparatus
- ½" NPT Conduit entry
- Operating temperature: -50°C to 105°C



## Specifications

Power Rating	Initial Contact Resistance	Hysteresis (Differential)	Sensing Range	Outlet Position	Enclosure Material	Wiring Options	Area Classification	Catalog Number
3A/24VDC, 10A/120VAC	0.5 Ohm	6mm (1/4")	6mm (1/4")	Bottom of Enclosure	304 Stainless Steel	18 Gauge, 36" Lead Wires	CSA Cl I, Div 1, Groups A-D; ClI, Div 1, Groups E-G; Cl III	81-20524-A2

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

## Features

- End sensing
- Palladium silver contacts
- Detects ferrous metal or magnetic targets (N)
- 316L stainless steel
- Single Pole Double Throw (SPDT)
- Simple apparatus
- ½" NPT conduit entry
- Operating temperature: -50°C to 105°C



## Specifications

Power Rating	Initial Contact Resistance	Hysteresis (Differential)	Sensing Range	Outlet Position	Enclosure Material	Wiring Options	Area Classification	Catalog Number
3A/24VDC, 4A/120VAC	0.5 Ohm	0.51mm (0.02")	2.5mm (0.100")	Bottom of Enclosure	316L Stainless Steel	18 Gauge, 36" Lead wire	cUL Cl I, Div 1, Groups A-D, Cl II, Div 1, Groups E-G; Cl III	73-13564-A2
							ATEX/IECEX Zone 1 Ex 'd', Hermetically Sealed	73-1356T-A2

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

## Features

- Reliable position feedback using TopWorx GO Switches
- Suitable for use in rotary and linear applications
- Global certification- NEC, CENELEC, IEC
- 12- point terminal strip



## Specifications

Enclosure	Bus/Sensor	Visual Display	Shaft	Conduit Entries	O-ring	Area Classification	Catalog Number	
Tropicalized Aluminum	(2) p+f NJ2-V3-N Inductive Switches NAMUR	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	(2) 3/4" NPT	Buna - N	Intrinsically safe (Bus/Sensor cannot be AS, DN, ES, PB or_X; Requires appropriate I.S. barrier) -North America Class I Div 1 & 2 Groups A, B, C, D Type 4, 4X -ATEX/IECEx Zone 0 II2GD, T6/T4 Ex ia IIC Ex tb IIIC, IP66/67 (Foundation Fieldbus) Zone 1, Ex ib IIC T4, IP67	DXP-E20GNEB	
				(2) 3/4" NPT	Silicone		DXP-E20GNES	
				(2) M20	Buna - N		DXP-E20GNMB	
				(2) M20	Silicone		DXP-E21GNMS	
				(2) 3/4" NPT	Buna - N		DXP-E20GSEB	
				(2) 3/4" NPT	Buna - N		DXP-L21GSEB	
	(2) GO™ Switches - SPDT Single Pole Double Throw Hermetic Seal	90° Black OPEN, Yellow CLOSED	NAMUR- 316 Stainless Steel	1/4" DD 316 Stainless Steel	(2) 3/4" NPT	Buna - N	Explosion proof / Flame proof -North America Class I Div 1 Groups C, D; Class I Div 2 Groups A, B, C, D (Groups A & B must be hermetically sealed) Type 4, 4X -ATEX/IECEx Zone 1 II2G, II2GD, T6/T4/T3 Ex d IIB+H2 Ex tb IIIC, IP66/67 (O rings must be S for DUST certification)	DXP-L21GNEB
					(2) 3/4" NPT	Silicone		DXP-L21GNES
					(2) M20	Buna - N		DXP-L21GNMB
					(2) M20	Silicone		DXP-L21GNMS
					(2) 3/4" NPT	Buna - N		DXP-L21GSMB
					(2) 3/4" NPT	Buna - N		DXP-L21BNEB
(2) GO™ Switches - SPDT Single Pole Double Throw Hermetic Seal	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	1/4" DD 316 Stainless Steel	(2) M20	Buna - N	Intrinsically safe (Bus/Sensor cannot be AS, DN, ES, PB or_X; Requires appropriate I.S. barrier) -North America Class I Div 1 & 2 Groups A, B, C, D Type 4, 4X -ATEX/IECEx Zone 0 II2GD, T6/T4 Ex ia IIC Ex tb IIIC, IP66/67 (Foundation Fieldbus) Zone 1, Ex ib IIC T4, IP67	DXP-L20GNMB	
				(2) M20	Silicone		DXP-L20GNMS	
				(2) 3/4" NPT	Buna - N		DXP-L20GSEB	
				(2) 3/4" NPT	Buna - N		DXP-L21GSEB	
				(2) 3/4" NPT	Buna - N		DXP-L21GNEB	
				(2) 3/4" NPT	Silicone		DXP-L21GNES	

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

Series  
**D**

## Specifications

Enclosure	Sensor Option	Visual Indicator	Shaft	Conduit Entries	O-ring	Area Classification	Catalog Number
Tropicalized Aluminum	(2) Mechanical Switches SPDT Single Pole Double Throw	90° Black OPEN, Yellow CLOSED	NAMUR- 316 Stainless Steel	(2) M20	Buna - N	Explosion proof / Flame proof -North America Class I Div 1 Groups C, D; Class I Div 2 Groups A, B, C, D (Groups A & B must be hermetically sealed) Type 4, 4X -ATEX/IECEX Zone 1 II2G, II2GD, T6/T4/T3 Ex d IIB+H2 Ex tb IIIC, IP66/67 (O rings must be S for DUST certification)	DXP-M21BNMB
		Standard 90° Green OPEN, Red CLOSED		(2) 3/4" NPT	Buna - N		DXP-M21GNEB
			(2) M20	Buna - N	DXP-M21GNMB		
			1/4" DD 316 Stainless Steel	(2) 3/4" NPT	Buna - N		DXP-M21GSEB
316 SST	(2) SPDT Hermetically Sealed GO™ Switch 3A@24VDC, 4A@120VAC	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	(2) 3/4" NPT	Buna-N	DXS-L21GNEB	

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

## Features

- Direct mount
- Low profile
- Global certification- NEC, CENELEC, IEC



## Specifications

Enclosure	Bus/Sensor	Visual Display	Shaft	Conduit Entries	O-ring	Area Classification	Catalog Number		
Engineered Resin (Area Class must be W or O), (Only available with Bus/Sensors AS, AM (with or w/o pilot valve) M, K, T, R, P or E (w/o pilotvalve))	(2) Mechanical Switches SPDT Single Pole Double Throw	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	(2) 1/2" NPT Resin	Silicone	No approvals, Type 4, 4X IP66/68	TVA-M2WGNAM		
				(2) M20 Resin			TVA-M2WGNMCM		
Tropicalized Aluminum base with clear resin lid	(2) Mechanical Switches SPDT Single Pole Double Throw	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	(2) 1/2" NPT Resin	Silicone	Intrinsically safe ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/68 (Dust groups TVL/TVH only) CI I Div 1 Grps- A-D; CI II Div 1 Grps E-G	TVA-R20GNAM		
				(2) M20			TVF-M20GNM		
				(2) 1/2" NPT			TVF-M20GNPM		
				(2) M20			TVF-M20WGNM		
Tropicalized Aluminum base and lid	Inductive Switches (2) p+f NJ2-V3-N NAMUR	Flat-top with skirt indicator	1" Extended Linear Shaft	(2) 1/2" NPT	Silicone	Intrinsically safe ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/68 (Dust groups TVL/TVH only) CI I Div 1 Grps- A-D; CI II Div 1 Grps E-G	TVL-E20FLPM		
				(2) M20			TVL-E20GLMM		
				(2) 1/2" NPT			TVL-E20GLPM		
				(2) 1/2" NPT			TVL-E20GLPM0000P		
				(2) 3/4" NPT			TVL-E20GNEM		
				(2) M20			TVL-E20GNM		
	(2) Mechanical Switches SPDT Single Pole Double Throw	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	NAMUR- 316 Stainless Steel			(2) 1/2" NPT	No approvals, Type 4, 4X IP66/68	TVL-M20GNM
							(2) 1/2" NPT	TVL-M20GNPM	
							(2) 1/2" NPT	TVL-M20GNM	
							(2) 1/2" NPT	TVL-M20GNPM	
							(2) 1/2" NPT	TVL-M20GNM	
							(2) 1/2" NPT	TVL-M20GNPM	
(2) SPDT 3A max Single Pole Double Throw	Standard 90° Green OPEN, Red CLOSED	NAMUR- 316 Stainless Steel	NAMUR- 316 Stainless Steel	(2) 1/2" NPT	Intrinsically safe ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/68 (Dust groups TVL/TVH only) CI I Div 1 Grps- A-D; CI II Div 1 Grps E-G	TVL-P20GNM			
				(2) 1/2" NPT		TVL-P20GNM			

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

## Specifications

Enclosure	Bus/Sensor	Visual Display	Shaft	Conduit Entries	O-ring	Area Classification	Catalog Number	
Tropicalized Aluminum	(2) p+f NJ2-V3-N Inductive Switches NAMUR	Standard 90° Green OPEN, Red CLOSED	1" Extended Linear Shaft	(2) 1/2" NPT	Silicone	Intrinsically safe 1 ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/67	TXP-E20GLPM	
			NAMUR Stainless Steel	(2) 3/4" NPT			TXP-E20GNEM	
				(2) M20			TXP-E20GNMM	
			(2) 1/2" NPT	TXP-E20GNPM				
			1" Extended Linear Shaft	(2) 1/2" NPT		Flame Proof 1 ATEX/IECEX II2GD Ex d IIC Ex tb IIIC, IP66/67 (w/o pilot valve)	TXP-E2CGLPM	
				(2) M20			TXP-E2CGNPM	
	(2) Mech SPDT w/gold contact		(4) M20	No approvals Type 4, 4x IP66/68		TXP-K2WGN3M		
			NAMUR Stainless Steel	(2) 1/2" NPT		Intrinsically safe 1 ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/67	TXP-L20GNPM	
	1" Extended Linear Shaft			(2) 1/2" NPT		Explosion proof 1 Cl I Div 1 Grps C,D II Div 1 Grps E-G (NEC approvals w/o pilot valve) ATEX/IECEX Zone 1 II2GD Ex d IIB Ex tb IIIC, IP66/67	TXP-L21GNPM	
			NAMUR Stainless Steel					(2) 1/2" NPT
	1" Extended Linear Shaft			(2) 3/4" NPT		TXP-L2CGNEM		
			(2) M20	TXP-L2CGNMM				
	(2) 1/2" NPT		TXP-L2CGNPM					
	(2) GO™ Switches - SPDT Single Pole Double Throw Hermetic Seal per UL:121201 / IEC:60079-15 3A/24VDC; 4A/120VAC		1" Extended Linear Shaft	(2) 1/2" NPT		Intrinsically safe 1 ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/67	TXP-M20GNPM	
				NAMUR Stainless Steel				(2) 1/2" NPT
			1" Extended Linear Shaft			(2) M20	TXP-M21GNMM	
				NAMUR Stainless Steel		(2) 1/2" NPT	Flame Proof 1 ATEX/IECEX II2GD Ex d IIC Ex tb IIIC, IP66/67 (w/o pilot valve)	TXP-M21GNPM
			1" Extended Linear Shaft					(2) M20
				1" Extended Linear Shaft		(2) 1/2" NPT	TXP-M2CFLPM	
			NAMUR Stainless Steel			(2) 1/2" NPT	Standard 90° Green OPEN, Red CLOSED	TXP-M2CGLPM
				1" Extended Linear Shaft				(2) 3/4" NPT
			(2) M20			TXP-M2CGNMM		
			(2) 1/2" NPT	TXP-M2CGNPM				
			(2) Mechanical Switches SPDT - Single Pole Double Throw	Flat-top with skirt indicator (TXP & TXS only) (Indicator not provided with "L" Shaft option)		1" Extended Linear Shaft	(2) 1/2" NPT	TXP-M2GFLPM
NAMUR Stainless Steel		(2) 1/2" NPT			Standard 90° Green OPEN, Red CLOSED			
	1" Extended Linear Shaft			(2) 1/2" NPT		Flat-top with skirt indicator (TXP & TXS only) (Indicator not provided with "L" Shaft option)	TXP-M2GFLPM	
NAMUR Stainless Steel		(2) 1/2" NPT			Standard 90° Green OPEN, Red CLOSED			TXP-M2GGNPM

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

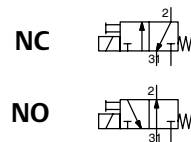
## Specifications

Enclosure	Bus/Sensor	Visual Display	Shaft	Conduit Entries	O-ring	Area Classification	Catalog Number	
Tropicalized Aluminum	(2) SPDT 3A max Single Pole Double Throw	Standard 90° Green OPEN, Red CLOSED	1" Extended Linear Shaft	(2) M20	Silicone	Intrinsically safe 1 ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/67	TXP-P20GLMM	
							90° Black OPEN, Yellow CLOSED	NAMUR Stainless Steel
		Standard 90° Green OPEN, Red CLOSED	1" Extended Linear Shaft	(2) M20		Flame Proof 1 ATEX/IECEX II2GD Ex d IIC Ex tb IIIC, IP66/67 (w/o pilot valve)	TXP-P2CGLMM	
							1" Extended Linear Shaft	(2) 1/2" NPT
			NAMUR Stainless Steel	(2) 3/4" NPT		TXP-P2CGNEM		
				(2) M20			TXP-P2CGNMM	
				(2) 1/2" NPT			TXP-P2CGNPM	
				(2) 1/2" NPT			TXS-M2CGNPM	
			316 Stainless Steel	(2) Mechanical Switches SPDT - Single Pole Double Throw		NAMUR Stainless Steel	(2) 1/2" NPT	TXS-M2CGNPM
				(2) SPDT 3A max Single Pole Double Throw			(2) 1/2" NPT	TXS-P2CGNPM

Note: Shipping arrangements including courier account number must be furnished in your Purchase Order (PO)

# ASCO NUMATICS™ Solenoid Pilots

Direct operated, ISO 15218 (CNOMO, size 30) interface



**3/2**  
Series  
**X189**

## Features

- CNOMO pad-mount version for valve piloting applications
- Compact size and low weight for easy installation on single or joinable subbases
- AC/DC interchangeability of the solenoid operator without any need for disassembly of the valve
- Flexible installation on joinable subbases
- Manual operator as standard
- The solenoid valves satisfy all relevant EC directives



## Standard Voltages

DC (=) : 12V-24V-48V

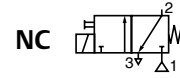
AC (~) : 115V/50-60Hz; 230V/50-60Hz

## Specifications

Pipe Size	Orifice Size		Flow at 6 bar l/min (ANR)		Flow Coefficient Kv		Operating Pressure Differential (bar)			Power Coil (W)		Catalog Number			
	1 → 2	2 → 3	1 → 2	2 → 3	1 → 2	2 → 3	Min.	Max. (PS)		~	=	~	=	with Connector	without Connector
	(mm)	(mm)			(l/min)	(l/min)		Air							
NC - Normally closed															
pad mounting	1.2	1.5	50	56	0.7	0.8	0	10	10	2.5	3			X18900001 TPL 24065	X18900002 TPL 24065

# ASCO NUMATICS™ Solenoid Pilots

Direct operated, ISO 15218 (CNOMO, size 30) interface



**3/2**  
Series  
**190**

## Features

- Size 30 CNOMO pilot adapted for the piloting of actuators or spool valves
- Version with M12 connection, integrated Led and protection
- Manual operator as standard



## Standard Voltages

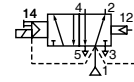
DC (=) : 24V

## Specifications

Orifice Size (mm)	Flow				Allowable Differential Pressure (bar)		Catalog Number
	at 6 bar l/min (ANR)		Coefficient Kv		Min.	Max.	
	1 → 2	2 → 3	1 → 2	2 → 3			with DIN Connector
1.6	70	84	1	1.2	0	10	19000006

# ASCO NUMATICS™ Mini Spool Valves

Solenoid air operated, G1/4 tapped body, adaptable on joinable subbases



**5/2**  
Series  
**521**

## Features

- Mini spool valve, ideal for piloting pneumatic cylinders
- Can be mounted on joinable subbase for manifold applications
- G1/4 tapped body



## Standard Voltages

DC (=) : 24V

AC (~) : 230V/50Hz

## Specifications

Operators	Voltages	Response Time (ms)		Catalog Number
		Energized	De-energized	
Differential Return	24VDC	20	30	52100001
Differential Return	230V / 50 Hz	20	30	52100004

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, G 1/8" - G 1/4"

3/2-5/2  
Series

**HV434441**

## Features

- Solenoid pilot
- DIN plug-in solenoid
- Unlubricated or lubricated service
- In-line or manifold mounted



## Standard Voltages

DC (=) : 12V-24V

AC (~) : 230V/50-60Hz

## Specifications

Port Size	Valve Type	Function	Catalog Number DC Solenoid	Catalog Number AC Solenoid
G1/8	Single Solenoid Pilot, Spring Return W/Flush Locking Override	2 Position, 4-Way	HV434441-001	HV434441-004
G1/8	Double Solenoid Pilot W/Flush Locking Override	2 Position, 4-Way	HV434441-002	HV434441-005
G1/8	Double Solenoid Pilot W/Flush Locking Override	3 Position, 4-Way Closed Center	HV434441-003	HV434441-006
G1/4	Single Solenoid Pilot, Spring Return W/Flush Locking Override	2 Position, 4-Way	HV434441-101	HV434441-104
G1/4	Double Solenoid Pilot W/Flush Locking Override	2 Position, 4-Way	HV434441-102	HV434441-105
G1/4	Double Solenoid Pilot W/Flush Locking Override	3 Position, 4-Way Closed Center	HV434441-103	HV434441-106
G1/4	Double Solenoid Pilot W/Flush Locking Override	3 Position, 4-Way Open Center	HV434441-107	HV434441-108

# ASCO NUMATICS™ Multifunction Spool Valves

Stainless steel spool & sleeve, according to ISO 5599/1, G 1/4" - 1/2"

5/2-5/3

Series

C

## Features

- Compact designed valves to standard ISO 5599/1
- Solenoid pilot and air pilot actuated
- Solenoid operator with standard epoxy encapsulated coil
- 5-ported, 2 and 3 position
- Lapped spool and sleeve assembly
- Housing made from aluminium alloy
- Lubricated or unlubricated operation
- AC or DC voltage
- Electrical: IP65 w/plug-in connector
- With locking manual overrides



## How to Order

**C12 BA 4 00 4 0 11B 61**

**Valve Series & Port Size**  
 C12\* = ISO1 1/4" (Joinable base)  
 C13 = ISO1 3/8" (Single base)  
 C23\* = ISO2 3/8" (Single base)  
 C24 = ISO2 1/2" (Joinable base)

**Valve Type**  
 BA = Single solenoid pilot, spring return  
 BB = Double solenoid pilot

**Function**  
 4 = 2 Position, 4-Way  
 5 = 3 Position, 4-Way open center  
 6 = 3 Position, 4-Way closed center  
 7 = 3 Position, 4 Way-(5/3), open to 4 (A) and 2 (B) in center

**Mounting**  
 00 = Valve only  
 41 = Valve with side ported single base

**Voltage**  
 30 = 110/50-60 VAC  
 40 = 230/50-60 VAC  
 61 = 24 VDC

**Options**  
 11B\*\* = Standard  
 (With locking manual override on solenoid operator)

**Port Type**  
 0 = Valve only  
 G = G Thread

**Voltage Option**  
 2 = AC  
 4 = DC

NOTE: Order plug-in connector assembly separately (see ordering information below)  
 \* Code use when supply valve unit only \*\* BA & BB only

## Solenoid Pilot Assemblies\* X18990001 TPL 24065



## Replacement Coils\*

Voltage	Order Code
24 VDC	43004869
115/50-60 VAC	43004884
230/50-60 VAC	43004886

Plug Connector Description	Part No.
Standard Connector	88122404

## Joinable Bases with Side Ports

Size	Description	Part No.
ISO 1	Joinable subbase with side ports	355 00 088
	Set of 2 end plates	355 00 087
ISO 2	Joinable subbase with side ports	355 00 102
	Set of 2 end plates	355 00 101

## Single Bases with Side Ports

Type	Port Size	Part No.
ISO 1	G 1/4	35500076
	G 3/8	35500382
ISO 2	G 3/8	35500560
	G 1/2	35500562

# ASCO NUMATICS™ Multifunction Spool Valves

Stainless steel spool & sleeve, according to ISO 5599/1, G 1/4" - 3/8"

5/2

Series

HV434442

## Features

- Compact designed valves to standard ISO 5599/1
- Solenoid pilot and air pilot actuated
- Solenoid operator with standard epoxy encapsulated coil
- 5-ported, 2 and 3 position
- Lapped spool and sleeve assembly
- Housing made from aluminium alloy
- Lubricated or unlubricated operation
- AC or DC voltage
- Electrical: IP65 w/plug-in connector
- With locking manual overrides



## Standard Voltages

DC (=) : 24V

AC (~) : 115V/50-60Hz; 230V/50-60Hz

## Specifications

Port Size	Valve Type	Function	Mounting	Catalog Number DC Solenoid	Catalog Number AC Solenoid
ISO1 1/4	Single Solenoid Pilot, Spring Return	2 Position, 4-Way	Valve only	HV434442-001	HV434442-002
ISO2 3/8	Double Solenoid Pilot	2 Position, 4-Way	Valve only	HV434442-101	HV434442-102

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, G 1/2"

5/2-5/3  
Series  
J3

## Features

- Solenoid-pilot actuated valves
- DIN plug-in solenoid and plug connector with or without indicator light available
- Housing made from aluminium alloy
- Lubricated or unlubricated operation
- In-line (pressure ports in valve body)



## Standard Voltages

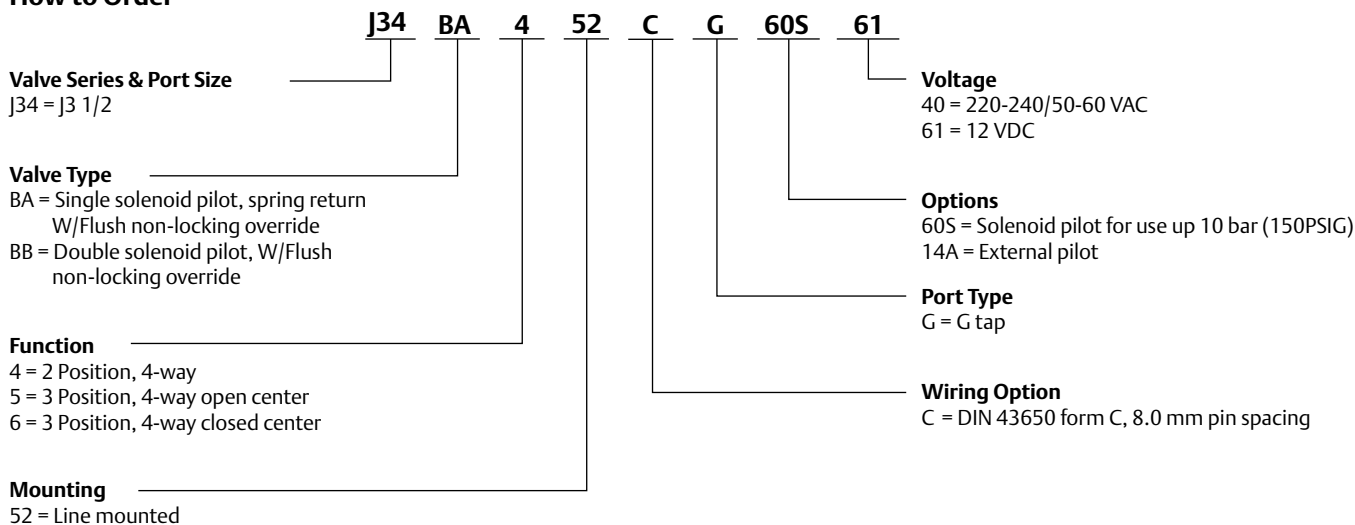
DC (=) : 24V

AC (~) : 220V-240V/50-60Hz

## Technical Data

Valve Data	English	Metric
Cv	2.5	2.5
Flow Capacity	115 SCFM @ 80 PSIG upstream pressure to atmosphere	2362 NI/m @ 6 bar upstream/ 5 bar downstream
Pressure Range	60S Option: Vacuum to 150 PSIG	Vacuum to 10 bar
	000 Option: Vacuum to 116 PSIG	Vacuum to 8 bar
Pilot Pressure	26 to 145 PSIG	1.8 to 10 bar
Temperature Range	-10°F to 115°F	-23°C to 46°C

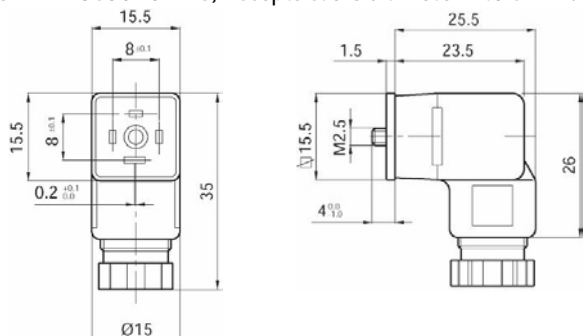
## How to Order



Note: Plug connector is NOT included with DIN solenoid. Order plug-in connector assembly separately (see ordering information below)

## Plug-in Connector Assemblies

Per DIN 43650 Form C, Accepts cable diameter 4 to 6 mm.\*



Plug Connector Description**	Part No.
Black Plug Assembly w/o Light	230-1140

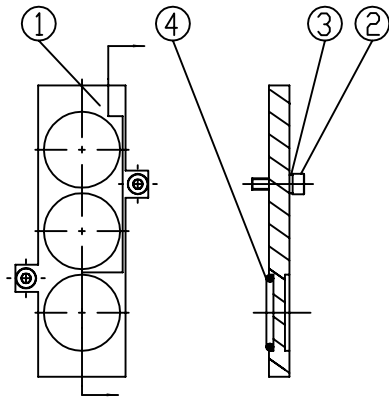
\* To be sold separately

\*\* Connectors includes screw and gasket

**Manifold Assembly**

# STATIONS	Part No.
2 Stations	106-1443
3 Stations	106-1444
4 Stations	106-1445
5 Stations	106-1446
6 Stations	106-1447
7 Stations	106-1448
8 Stations	106-1449
9 Stations	106-1450
10 Stations	106-1451
11 Stations	106-1452
12 Stations	106-1453

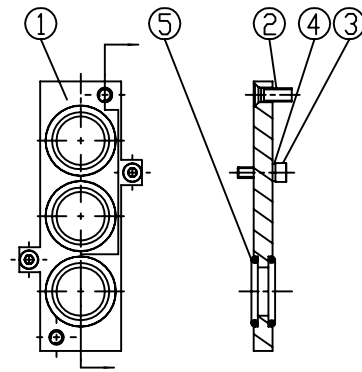
**Blank Station Plate Kit: 245-127**



Det. No.	No. Req'd	Part Name
1	1	Blank Station Plate
2	2	Screw
3	2	Washer Spring
4	3	O-ring

\* To be sold separately

**Adaptor Kit: 244-132**



Det. No.	No. Req'd	Part Name
1	1	Blank Station Plate
2	2	Screw
3	2	Washer Spring
4	3	O-ring

\* To be sold separately

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, 1/4" - 3/8"

**5/2-5/3**  
Series  
**YA**

## Features

- Solenoid pilot
- DIN plug-in solenoid indicator light
- Unlubricated or lubricated service
- In-line or manifold mounted



## Standard Voltages

DC (=) : 24V

AC (~) : 110V-230V/50-60Hz

## Technical Data (YA)

Valve Data	English		Metric	
	1/8 = 1.0	1/4 = 1.0	1/8 = 1.0	1/4 = 1.0
Cv	1/8 = 1.0	1/4 = 1.0	1/8 = 1.0	1/4 = 1.0
Flow Capacity	46 SCFM upstream pressure to atmosphere @ 80 PSIG		985 NI/m @6 bar upstream/5 bar downstream	
Main Valve Operating Pressure Range	28" HG. Vacuum to 150 PSIG		Vacuum to 10 bar	
Pilot Pressure Range: Internal and External	14.5 to 150 PSIG		1 to 10 bar	
Temperature Range: Solenoid Pilot (ambient)	-10°F to +115°F		-23°C to +46°C	

## How to Order

**YA1 BA 4 52 4 N 000 30**

**Valve Series & Port Size**  
YA1 = 1/8  
YA2 = 1/4

**Valve Type**  
BA = Single solenoid pilot, spring return  
W/Flush non-locking override  
BB = Double solenoid pilot W/Flush  
locking override  
PA = Single air pilot w/spring return  
PP = Double air pilot

**Function**  
4 = 2 Position, 4-way  
5 = 3 Position, 4-way open center  
6 = 3 Position, 4-way closed center  
7 = 3 Position 4-way (5/3),  
open to 4 (A) and 2 (B) in center

**Mounting**  
52 = Line mounted (Manifold mount with adaptor)

**Voltage**  
30 = 110 / 50-60 VAC  
40 = 230 / 50-60 VAC  
61 = 24 VDC  
00 = N/A (Used with air pilot)

**Options**  
000 = Standard (Class F coil)  
14A = External pilot supply  
18D = Side ports ( Namur plate needed when 18D  
option is used for namur interface)

**Port Type**  
N = NPTF  
G = G tap

**Wiring Option**  
4 = DIN Plug-In DC solenoid  
2 = DIN Plug-In AC solenoid or air pilot

Note: Plug connector is included with DIN solenoid

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# 5/2-5/3

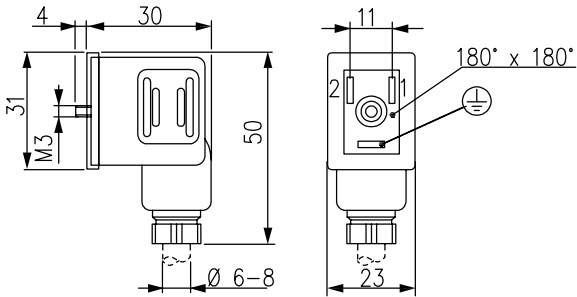
Series

YA

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, 1/4" - 3/8"

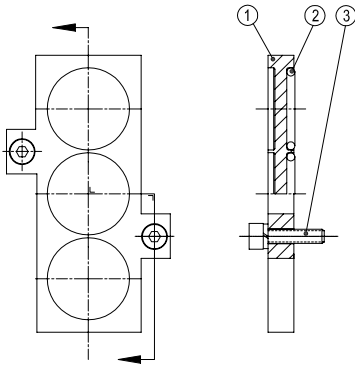
## Plug Connector Assemblies



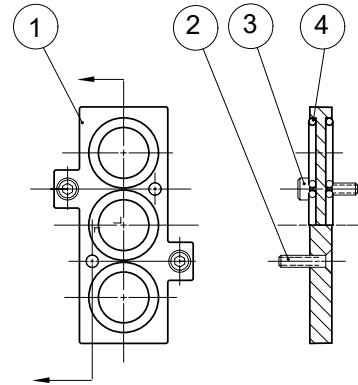
Plug Connector Description	Part No.
Black Plug Assembly	88122404

# Of Stations	Manifold Kit No		# Of Stations	Manifold Kit No	
	G 1/4			G 1/4	
2 Stations	106-1096		8 Stations	106-1102	
3 Stations	106-1097		9 Stations	106-1103	
4 Stations	106-1098		10 Stations	106-1104	
5 Stations	106-1099		11 Stations	106-1105	
6 Stations	106-1100		12 Stations	106-1106	
7 Stations	106-1101		Adaptor Kit	Order (1) adaptor kit for each station on the manifold Includes all seals and screw	

## Blank Station Plate Kit 239-288-SJ\*



## ADAPTOR KIT 239-311\*



## Solenoid Assemblies\*

Standard Voltages	110/50-60 VAC	230/50-60 VAC	24 VDC
Part No.	43005069	43004886	43004869

\* To be sold separately

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, 1/4" - 3/8"

**5/2-5/3**  
Series  
**YB**

## Features

- Solenoid pilot
- DIN plug-in solenoid indicator light
- Unlubricated or lubricated service
- In-line or manifold mounted



## Standard Voltages

DC (=) : 24V  
AC (~) : 110V-230V/50-60Hz

## Technical Data (YA)

Valve Data	English		Metric	
Cv	1/8 = 1.0	1/4 = 1.0	1/8 = 1.0	1/4 = 1.0
Flow Capacity	46 SCFM upstream pressure to atmosphere @ 80 PSIG		985 NI/m @6 bar upstream/5 bar downstream	
Main Valve Operating Pressure Range	28" HG. Vacuum to 150 PSIG		Vacuum to 10 bar	
Pilot Pressure Range: Internal and External	14.5 to 150 PSIG		1 to 10 bar	
Temperature Range: Solenoid Pilot (ambient)	-10°F to +115°F		-23°C to +46°C	

## How to Order

**YB2 BA 4 52 4 G 000 30**

**Valve Series & Port Size**  
YB2 = 1/4  
YB3 = 3/8

**Valve Type**  
BA = Single solenoid pilot, spring return  
W/Flush locking override  
BB = Double solenoid pilot W/Flush  
locking override  
PA = Single air pilot w/spring return  
PP = Double air pilot

**Function**  
4 = 2 Position, 4-way  
5 = 3 Position, 4-way open center  
6 = 3 Position, 4-way closed center  
7 = 3 Position 4-way (5/3),  
open to 4 (A) and 2 (B) in center

**Mounting**  
52 = Line mounted (Manifold mount with adaptor)

**Voltage**  
30 = 110 / 50-60 VAC  
40 = 230 / 50-60 VAC  
61 = 24 VDC  
00 = N/A (Used with air pilot)

**Options**  
000 = Standard (Class F coil)  
14A = External pilot supply  
12B = Dry assembly

**Port Type**  
G = G tap

**Wiring Option**  
4 = DIN Plug-In DC solenoid  
2 = DIN Plug-In AC solenoid or air pilot

Note: Plug connector is included with DIN solenoid

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# 5/2-5/3

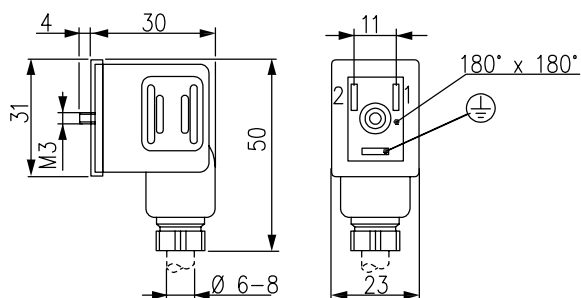
Series

**YB**

# ASCO NUMATICS™ Spool Valves

Stainless steel spool & sleeve, aluminium body, 1/4" - 3/8"

## Plug Connector Assemblies



Plug Connector Description	Part No.
Black Plug Assembly	88122404

## Solenoid Assemblies\*

Standard Voltages	110/50-60 VAC	230/50-60 VAC	24 VDC
Part No.	43005069	43004886	43004869

\* To be sold separately

## Manifold

Manifold Stations	G3/8 Part No.	Manifold Stations	G3/8 Part No.
2 Stations	106-715	8 Stations	106-721
3 Stations	106-716	9 Stations	106-722
4 Stations	106-717	10 Stations	106-723
5 Stations	106-718	11 Stations	106-724
6 Stations	106-719	12 Stations	106-725
7 Stations	106-720	-	-

**Blank Station Plate Kit**  
239-417-Sj

**Adaptor Kit**  
239-312

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21



# AVENTICS™ Solenoid Valves

Air pilot actuated / rubber package, M7 thread & 6mm push-in fitting with 11mm wide, G3/580 fieldbus capability

5/2-Dual 3/2

Series

501

## Features

- Solenoid air pilot actuated
- Low wattage .8 wall for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- In fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot during operation and repair
- G3/580 Fieldbus capability



## Standard Voltages

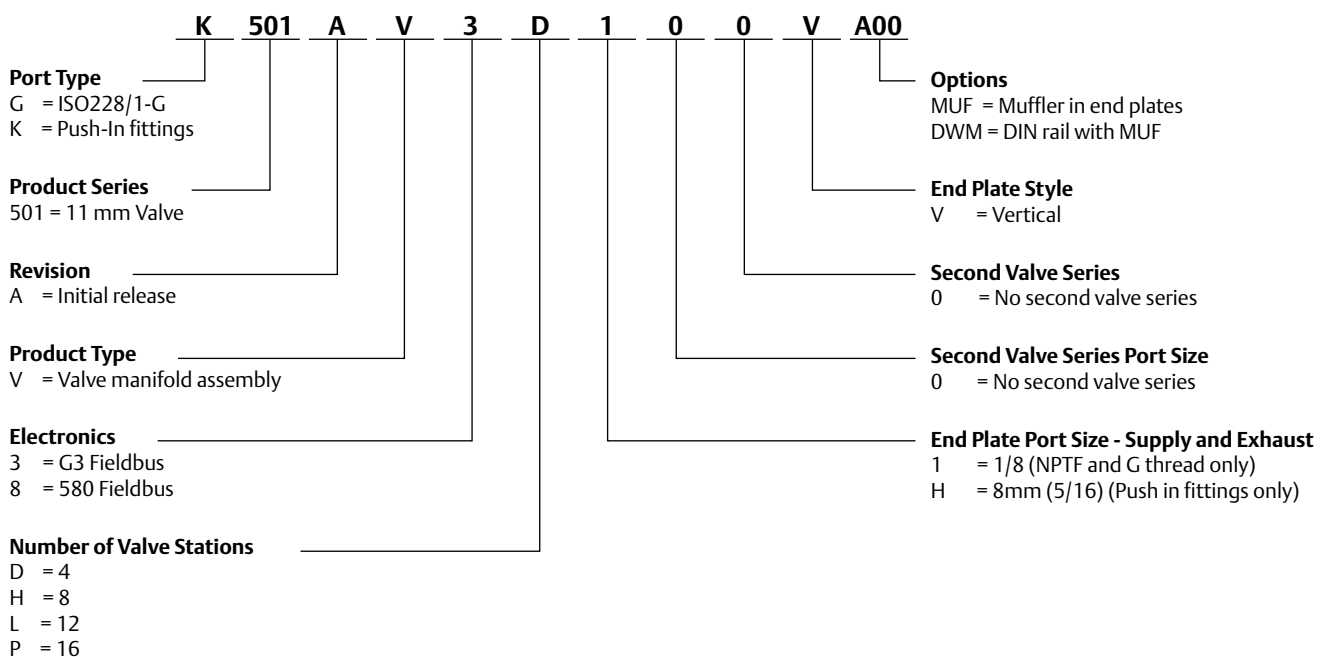
DC (=) : 24V

## Specifications

Port Type	Product Series	Product Type	Mounting	Port Size	Wiring Option	Options	Interface	Catalog Number
Metric Thread	501	Manifold Sub Base	Manifold Sub Base, 4 Stations, Side Ports, Double Z-Board	M7 (Threaded only)	Plug-In, Receptacle Assembly	Standard	Proprietary	H501AMM4BMA0010
Push-In Fittings	501	Manifold Sub Base	Manifold Sub Base, 4 Stations, Side Ports, Double Z-Board	6 mm (Push-In Fittings only)	Plug-In, Receptacle Assembly	Standard	Proprietary	K501AMM4FMA0010
No Port Size	501	Sandwich function	Proprietary Sandwich Shut Off Kit	No Port Size	Plug-In	Standard	Proprietary	R501AY428501001

Product Series	Actuation	Valve Type	Function	Port Size	Electrical	Options	Catalog Number
501	n/a	Blank Station Plate	Blank Station Plate Kit	No Port Size	Plug-in	Standard	P501AB429685001
501	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Spring Return	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R501A2B10M11BF1
501	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Dual Solenoid	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R501A2B40M11BF1
501	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	Dual 3-way, A normally closed - B normally closed	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R501A2BD0M11BF1

## Manifold Assembly How to Order



Note: Manifold assembly maximum 3 pcs order quantity for express delivery, if more than 3 pcs please contact factory for lead time confirmation.

10 Days Asia Pacific QuickShip Catalog CT000086ENJUS-07\_05-21

# AVENTICS™ Solenoid Valves

Air pilot actuated / spool & sleeve and rubber, G1/4 & 8mm push-in fitting with 26mm wide, G3/580 fieldbus capability

5/2-5/3

Series

503

## Features

- Solenoid air pilot actuated
- Low wattage - 1.7 watt for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- In fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot
- IP65 Certified
- Shut off block for individual valve to be isolated from pressure supply during operation and repair
- G3/580 fieldbus capability



## Standard Voltages

DC (=) : 24V

## Specifications

Port Type	Product Series	Product Type	Mounting	Port Size	Wiring Option	Options	Interface	Catalog Number
ISO228/1-G	503	Manifold Base	Manifold Base, 2 Stations, Side Ports, Double Z-Board	1/4	Plug-in, Receptacle Assembly	Standard	Proprietary	G503AMM22MA0010
Push-in Fittings	503	Manifold Base	Manifold Base, 2 Stations, Side Ports, Double Z-Board	8 mm	Plug-in, Receptacle Assembly	Standard	Proprietary	K503AMM2HMA0010

Product Series	Actuation	Valve Type	Function	Port Size	Electrical	Options	Catalog Number
503	n/a	Blank Station Plate	Blank Station Plate Kit	No Port Size	Plug-in	Standard	P503AB428359001
503	Spool and Sleeve	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Spring Return	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R503A1B10M11BF1
503	Spool and Sleeve	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Dual Solenoid	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R503A1B40M11BF1
503	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Spring Return	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R503A2B10M11BF1
503	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	2 Position 4-Way (5/2), Dual Solenoid	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R503A2B40M11BF1
503	Rubber Packed	Solenoid Pilot with Flush Non-Locking Override	3 Position 4-Way (5/3), Blocked Center	No Port Size	Plug-in, w/ Light, VDC	Flush Locking Manual Override	R503A2B60M11BF1
503	n/a	Sandwich function	Proprietary Sandwich Shut Off Kit	No Port Size	Plug-in	Standard	R503AY426707002

## Manifold Assembly How to Order

**G 503 A V 3 B 3 0 0 V A00**

**Port Type**

G = ISO228/1-G  
K = Push-In fittings

**Product Series**

503 = 26 mm valve

**Revision**

A = Initial release

**Product Type**

V = Valve manifold assembly

**Electronics**

3 = G3 Fieldbus electronics  
8 = 580 Fieldbus

**Options**

MUF = Muffler in end plates  
DWM = DIN rail with MUF

**End Plate Style**

V = Vertical

**End Plate Port Size**

3 = 3/8  
K = 10 mm

**Number of Valve Stations**

B = 2      J = 10  
D = 4      L = 12  
F = 6      N = 14  
H = 8      P = 16

Note: Manifold assembly maximum 3 pcs order quantity for express delivery, if more than 3 pcs please contact factory for lead time confirmation.

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# AVENTICS™ Fieldbus Electronics

Communication node and I/O, PROFIBUS DP / PROFINET / Ethernet POWERLINK

Series

**G3**

## Features

- Innovative graphic display is used for easy commissioning, visual status & diagnostics  
No internal wiring simplifies assembly
- SPEEDCON M12 connector technology allows for fast and efficient ½ turn I/O connector attachment
- Power connector allows output power to be removed while inputs and communication are left active
- IP65 protection
- Up to 1200 Input/1200 Output capability with one communication node!  
(Present physical I/O combinations allows 1200 I/544 O)
- 32 valve solenoids per manifold, up to 17 manifolds/branch per communication node!
- One node supports 16 I/O modules – Analog I/O, Digital I/O (NPN & PNP) and specialty
- Innovative clip design allows easy module removal/replacement without dismantling manifold
- Auto Recovery Module (ARM) protects configuration information during a critical failure. Allows configuration information to be saved and reloaded to replacement module automatically
- CE Mark



## Standard Voltages

DC (=) : 24V

## Specifications

Product Series	Product Type	Protocol	Connector Type	Description	Catalog Number
G3	Electronics	PROFIBUS DP	5 pin M12 type (1 male and 1 female)	Replacement Code	240-239
G3	Electronics	PROFINET	Two D-coded 4 pin M12 type (female)	Replacement Code	240-240
G3	Connector	PROFINET PROFIBUS DP	M12 5 Pin, Male ,90°	Power Port, PG9	MD05F20000000000
G3	Connector	PROFINET	M12 Straight 4 Pin Male	Communication Port, PG 9, Screw Terminal	QA04F200000000000
G3	Connector	PROFIBUS DP	M12 Straight 5 Pin, Male	Communication Port, Bus Out, PG7	RA05F200P00000000
G3	Terminating Resistor	PROFIBUS DP	M12 Straight 5 Pin, Male	Communication Port	RA05TR00000000000
G3	Connector	PROFIBUS DP	M12 Straight 5 Pin, Female	Communication Port, Bus In, PG7	RC05F200P00000000

Product Series	Product Type	Signal type	Connector Type	Remark	Catalog Number
G3	I/O Moduel	16 PNP Digital Inputs	Terminal Strip	Assembly/Replacement Code	240-203
G3	I/O Moduel	16 NPN Digital Inputs	Terminal Strip	Assembly/rReplacement Code	240-204
G3	I/O Moduel	16 PNP Digital Inputs	5-pin M12 * 8 port	Assembly/Replacement Code	240-205
G3	I/O Moduel	16 NPN Digital Inputs	5-pin M12 * 8 port	Assembly/Replacement Code	240-209

## Manifold Assembly How to Order

### Electronics Protocols

PT1 = PROFIBUS-DP  
PN1 = PROFINET

### Number of I/O Modules

00 = 0	09 = 9
01 = 1	10 = 10
02 = 2	11 = 11
03 = 3	12 = 12
04 = 4	13 = 13
05 = 5	14 = 14
06 = 6	15 = 15
07 = 7	16 = 16
08 = 8	

**G3 EP1 00 R 0 STD**

### Special Options

STD = Standard  
DRM = DIN rail mounting

### Modification

0 = Initial release

### Left Mounting

D = w/ Sub-Bus out  
R = w/ Terminating resistor

Note: Manifold assembly maximum 3 pcs order quantity for express delivery, if more than 3 pcs please contact factory for lead time confirmation.

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# AVENTICS™ Fieldbus Electronics

Communication node and I/O, PROFIBUS DP / PROFINET / Ethernet POWERLINK

Series

**580**

## Features

- Innovative graphic display is used for easy commissioning, visual status & diagnostics no internal wiring simplifies assembly
- No internal wiring simplifies assembly
- Power connector allows output power to be removed while inputs and communication are left active
- IP65 protection
- 32 valve solenoids per manifold
- CE mark



## Standard Voltages

DC (=) : 24V

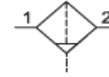
## Specifications

Product Series	Product Type	Protocol	Connector Type	Description	Catalog Number
580	Electronics	PROFIBUS DP	5 pin M12 (1 male and 1 female)	No Options	P580AEPT1010A00
580	Electronics	PROFIBUS DP	5 pin M12 (1 male and 1 female)	DIN Rail Mount	P580AEPT1010DRM
580	Electronics	PROFINET	Two D-coded 4 pin M12 (female)	No Options	P580AEPN1010A00
580	Electronics	PROFINET	Two D-coded 4 pin M12 (female)	DIN Rail Mount	P580AEPN1010DRM
580	Connector	PROFINET	M12 Straight 4 Pin, Male	Communication Port, PG7	QA04F200R000071N
580	Terminating Resistor	PROFIBUS DP	M12 Straight 5 Pin, Male	Communication Port	RA05TR0000000000
580	Connector	PROFIBUS DP	M12 Straight 5 Pin, Male	Communication Port, Bus Out, PG7	RA05F200P0000000
580	Connector	PROFIBUS DP	M12 Straight 5 Pin, Female	Communication Port, Bus In, PG7	RC05F200P0000000
580	Connector	PROFINET PROFIBUS DP	M12 Straight 5 Pin, Male ,90°	Power Port, PG9	TD05F20000000000

10 Days Asia Pacific QuickShip Catalog CT0000086ENIUS-07\_05-21

# AVENTICS™ Particulate Filter

1/8" - 1/2"





Series  
**651/652**

## Features

- Large selection of filtering capacities to remove particulate and water droplets from compressed air or inert gas
- Sintered polyethylene elements, with centrifugal separator, include 5, 25 and 40 Microns
- Optional extended temperature range of -40 °F to 176 °F (-40 °C to 80 °C)
- Innovative two position plastic drain with manual and semi-automatic functions. Additional drains include an automatic style (brass) and manual (stainless steel)
- Polycarbonate and Aluminum bowls with a selection of sight gauge materials that meet industry and application requirements
- Threaded ports allow for individual or modular mounting
- Air purity class according to ISO 8573-1: 2010



## How to Order

	<b>8</b>	<b>651</b>	<b>A</b>	<b>B</b>	<b>B</b>	<b>P</b>	<b>2</b>	<b>J</b>	<b>A00</b>	<b>0</b>	<b>N</b>	
<b>Port Type</b> 8 = NPTF G = ISO 228-1*											<b>Drain Type</b> A = Auto drain normally N = Manual - Semi-Automatic drain	
<b>Product Series</b> 651 652											<b>Options***</b> A00 = No options 106 = Low temperature (-40°C)**	
<b>Product Type</b> B = Filter											<b>Port Size</b> 1 = 1/8 (651 series) 2 = 1/4 (651 & 652 series) 3 = 3/8 (652 series) 4 = 1/2 (651 /652 series)	
<b>Elements</b> B = 5um J = 25um												
<b>Bowl Type</b> K = Metal bowl without sight gauge N = Polycarbonate Bowl without Bowl Guard (651 only) P = Polycarbonate bowl with bowl guard												

\* Conforms to ISO standards 1179-1

\*\* Compressed air must be dry enough so no ice formation is present on the product.  
All bowls should be emptied prior to ambient temperatures dropping below 32°F (0°C)

\*\*\* If multiple options are required, please use the on-line CAD configurator on the website to generate the part number ([www.asco.com](http://www.asco.com)), or consult factory.

## Accessories



Series	Code
651	P651AT504958001
652	P652AT502466001



Series	Code
651 ¼ NPTF	T651AT504959001
651 ¼ G	T651AT504959002
652 ½ NPTF	T652AT502468001
652 ½ G	T652AT502468002



Series	Code
651	P651AT503860001
652	P652AT503860002



Series	Code
651	P699AT502467001
652	

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# AVENTICS™ Regulator

1/8" - 1/2"



Series  
**651/652**

## Features

- High flow with a wide range of adjustable output pressure ranges
- Available with relieving, non-relieving and internal flow check options
- Optional low profile gauge, round gauge, digital gauge or digital pressure switch
- Optional extended temperature range of -40 °F to 176 °F (-40 °C to 80 °C)
- Threaded ports allow for individual or modular mounting
- Key lockable and tamper resistant options



## How to Order

**8 651 A R 0 0 2 G A00 H 0**

**Port Type**  
8 = NPTF  
G = ISO 228-1\*

**Product Series**  
651  
652

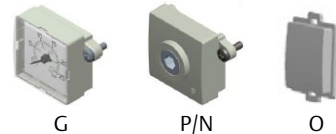
**Product Type**  
R = Regulator

**Port Size**  
1 = 1/8 (651 series)  
2 = 1/4 (651 & 652 series)  
3 = 3/8 (652 series)  
4 = 1/2 (652 series)

**Pressure Range**  
H = 7–145 PSIG/0.5–10 bar

**Options\*\*\***  
A00 = No options  
106 = Low temperature (-40°C)\*\*  
123 = Gauge Type Mounted for Right-to-Left Flow

**Gauge Type**  
G = Low Profile Gauge bar/PSI  
P = No Gauge with Port Plate (1/8 ISO 7/1 Rc)  
N = No Gauge with Port Plate (1/8 NPTF)  
O = No Gauge Port



\* Conforms to ISO standards 1179-1  
 \*\* Compressed air must be dry enough so no ice formation is present on the product.  
 All bowls should be emptied prior to ambient temperatures dropping below 32°F (0°C)  
 \*\*\* If multiple options are required, please use the on-line CAD configurator on the website to generate the part number (www.asco.com), or consult factory.

## Accessories

Series	Code
651	P651AT504958001
652	P652AT502466001

Series	Code
651	P699AT502467001
652	

Series	Code
651	P651AT503861001
652	P652AT503861002

Series	Code
651	P651AT503860001
652	P652AT503860002

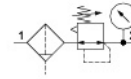
Series	Code
651 ¼ NPTF	T651AT504959001
651 ¼ G	T651AT504959002

Series	Code
651	P651AT513928001
652	P652AT513177001

Series	Code
652 ½ NPTF	T652AT502468001
652 ½ G	T652AT502468002

# AVENTICS™ Particulate Filter/Regulator

1/8" - 1/2"



Series  
**651/652**

## Features

- High flow with a wide range of adjustable output pressure ranges
- Optional low profile gauge, round gauge, digital gauge or digital pressure switch
- Optional extended temperature range of -40°F to 176°F (-40°C to 80°C)
- Sintered polyethylene elements, with centrifugal separator, include 5, 25 and 40 Microns
- Threaded ports allow for individual or modular mounting
- Innovative two position plastic drain with manual and semi-automatic functions. Additional drains include an automatic style (brass) and manual (stainless steel)
- Polycarbonate and Aluminum bowls with a selection of sight gauge materials that meet industry and application requirements
- Key lockable and tamper resistant models
- Air purity class according to ISO 8573-1: 2010



## How to Order

<p><b>Port Type</b> 8 = NPTF G = ISO 228/1-G*</p> <p><b>Product Series</b> 651 652</p> <p><b>Revision Letter</b> A = Initial release</p> <p><b>Product Type</b> P = Filter/Regulator - Particulate</p> <p><b>Elements</b> B = 5 Micron (White) J = 25 Micron (Yellow)</p> <p><b>Bowl Type</b> K = Metal bowl without sight gauge P = Polycarbonate bowl with bowl guard</p>	<p><b>G 651 A P B P 2 G A00 H N</b></p>	<p><b>Drain Type</b> A = Auto drain normally open N = Manual - Semi-Automatic drain</p> <p><b>Pressure Range</b> H = 7-145 PSIG/0.5-10 bar</p> <p><b>Options</b> A00 = No options 106 = Low temperature (-40°C/-40°F)**</p> <p><b>Gauge Type</b> G = Low profile gauge bar/PSI N = No Gauge with Port Plate (1/8 NPTF) P = No Gauge with Port Plate (1/8 ISO 7/1 Rc) 0 = No gauge port</p> <p><b>Port Size</b> 1 = 1/8 (651 series) 2 = 1/4 (651 or 652 series) 3 = 3/8 (652 series) 4 = 1/2 (652 series)</p>
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\* Conforms to ISO standards 1179-1

\*\* Compressed air must be dry enough so no ice formation is present on the product.  
All bowls should be emptied prior to ambient temperatures dropping below 32°F (0°C)

## Accessories



Series	Code
651	P651AT504958001
652	P652AT502466001



Series	Code
651	P699AT502467001
652	P699AT502467001



Series	Code
651	P651AT503861001
652	P652AT503861002



Series	Code
651	P651AT503860001
652	P652AT503860002



Series	Code
651 ¼ NPTF	T651AT504959001
651 ¼ G	T651AT504959002
652 ½ NPTF	T652AT502468001
652 ½ G	T652AT502468002



Series	Code
651	P651AT513928001
652	P652AT513177001

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# AVENTICS™ Profile cylinder

ISO 15552

Series

**PRA**

## Features

- Ø 32-100 mm
- Ports G 1/8, G 1/4, G 3/8, G 1/2
- Double-acting
- with/ without magnetic piston
- Cushioning pneumatically, adjustable / Cushioning elastic
- Piston rod External thread
- ATEX optional
- Standards ISO 15552
- Compressed air connection Internal thread
- Working pressure min./max. 1,5 ... 10 bar
- Ambient temperature min./max. -20 ... 80 °C
- Medium temperature min./max. -20 ... 80 °C
- Medium Compressed air
- Max. particle size 50 µm
- Oil content of compressed air 0 ... 5 mg/m<sup>3</sup>
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	32 mm M10x1.25 G 1/8 12 mm	40 mm M12x1.25 G 1/4 16 mm	50 mm M16x1.5 G 1/4 20 mm	63 mm M16x1.5 G 3/8 20 mm	80 mm M20x1.5 G 3/8 25 mm	100 mm M20x1.5 G 1/2 25 mm
	Stroke 25	0822120001	0822121001	0822122001	0822123001	0822124001	0822125001
	50	0822120002	0822121002	0822122002	0822123002	0822124002	0822125002
	80	0822120003	0822121003	0822122003	0822123003	0822124003	0822125003
	100	0822120004	0822121004	0822122004	0822123004	0822124004	0822125004
	125	0822120005	0822121005	0822122005	0822123005	0822124005	0822125005
	160	0822120006	0822121006	0822122006	0822123006	0822124006	0822125006
	200	0822120007	0822121007	0822122007	0822123007	0822124007	0822125007
	250	0822120008	0822121008	0822122008	0822123008	0822124008	0822125008
	320	0822120009	0822121009	0822122009	0822123009	0822124009	0822125009
	400	0822120010	0822121010	0822122010	0822123010	0822124010	0822125010
500	0822120011	0822121011	0822122011	0822123011	0822124011	0822125011	

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	32 mm M10x1.25 G 1/8 12 mm	40 mm M12x1.25 G 1/4 16 mm	50 mm M16x1.5 G 1/4 20 mm	63 mm M16x1.5 G 3/8 20 mm	80 mm M20x1.5 G 3/8 25 mm	100 mm M20x1.5 G 1/2 25 mm
	Stroke 25	R480041555	R480041559	R480041563	R480041567	R480041573	R480041577
	50	R480041556	R480041560	R480041564	R480041568	R480041574	R480041578
	80	R480041557	R480041561	R480041565	R480041569	R480041575	R480041579
	100	R480041558	R480041562	R480041566	R480041570	R480041576	R480041580
	125	R480151537	R480051376	R480045537	R480054955	R480152097	R480150480
	160	R480143129	R480044478	R480156862	R480152784	R480044479	R480051377
	200	R480041250	R480151194	R480045822	R480148986	R480068280	R480163053
	250	R480162928	R480068778	R480152659	R480069183	R480163037	R480163054
	320	R480162929	R480160211	R480042163	R480148534	R480148937	R480155887
	400	R480069508	R480162989	R480153304	R480148988	R480157647	R480163055
500	R480048725	R480044634	R480070399	R480154536	R480158439	R480152777	

Max. Stroke is 1500mm

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# AVENTICS™ Tie rod cylinder

ISO 15552

Series

**TRB**

## Features

- Ø 32-125 mm
- Ports G 1/8, G 1/4, G 3/8, G 1/2
- double-acting
- with/ without magnetic piston
- Cushioning pneumatically, adjustable / Cushioning elastic
- Piston rod External thread
- ATEX optional
- Standards ISO 15552
- Compressed air connection Internal thread
- Working pressure min./max. 1,5 ... 10 bar
- Ambient temperature min./max. -20 ... 80 °C
- Medium temperature min./max. -20 ... 80 °C
- Medium Compressed air
- Max. particle size 50 µm
- Oil content of compressed air 0 ... 5 mg/m<sup>3</sup>
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	32 mm M10x1.25 G 1/8 12 mm	40 mm M12x1.25 G 1/4 16 mm	50 mm M16x1.5 G 1/4 20 mm	63 mm M16x1.5 G 3/8 20 mm	80 mm M20x1.5 G 3/8 25 mm	100 mm M20x1.5 G 1/2 25 mm	125 mm M27x2 G 1/2 32 mm
	Stroke 25	0822340001	0822341001	0822342001	0822343001	0822344001	0822345001	0822306201
	50	0822340002	0822341002	0822342002	0822343002	0822344002	0822345002	0822306202
	80	0822340003	0822341003	0822342003	0822343003	0822344003	0822345003	0822306203
	100	0822340004	0822341004	0822342004	0822343004	0822344004	0822345004	0822306204
	125	0822340005	0822341005	0822342005	0822343005	0822344005	0822345005	0822306205
	160	0822340006	0822341006	0822342006	0822343006	0822344006	0822345006	0822306206
	200	0822340007	0822341007	0822342007	0822343007	0822344007	0822345007	0822306207
	250	0822340008	0822341008	0822342008	0822343008	0822344008	0822345008	0822306208
	320	0822340009	0822341009	0822342009	0822343009	0822344009	0822345009	0822306209
	400	0822340010	0822341010	0822342010	0822343010	0822344010	0822345010	0822306210
	500	0822340011	0822341011	0822342011	0822343011	0822344011	0822345011	0822306211

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	32 mm M10x1.25 G 1/8 12 mm	40 mm M12x1.25 G 1/4 16 mm	50 mm M16x1.5 G 1/4 20 mm	63 mm M16x1.5 G 3/8 20 mm	80 mm M20x1.5 G 3/8 25 mm	100 mm M20x1.5 G 1/2 25 mm	125 mm M27x2 G 1/2 32 mm
	Stroke 25	0822340600	0822341600	0822342600	0822343600	0822344600	0822345600	R480170413
	50	0822340601	0822341601	0822342601	0822343601	0822344601	0822345601	R480142425
	80	0822340602	0822341602	0822342602	0822343602	0822344602	0822345602	R480170781
	100	0822340611	R480055348	0822342607	0822343603	0822344603	0822345604	R480160422
	125	0822340612	0822341611	0822342612	R480163015	0822344605	R480141842	R480170784
	160	0822340609	0822341610	0822342606	0822343606	0822344609	0822345606	R480170785
	200	R480162940	0822341604	0822342620	R480163016	0822344607	0822345610	R480170786
	250	0822340618	0822341608	0822342614	0822343608	0822344608	R480149881	R480170787
	320	R480162941	R480162983	0822342621	0822343612	0822344606	R480163046	R480146555
	400	0822340614	0822341605	R480162998	R480163017	0822344604	0822345603	R480170788
	500	R480045159	R480162984	R480162999	R480163018	0822344611	R480163047	R480168824

Max. Stroke is 1500mm

10 Days Asia Pacific QuickShip Catalog C T000086ENUS-07\_05-21

# AVENTICS™ Tie rod cylinder

ISO 15552

Series

ITS

## Features

- Ø 160-200 mm
- Ports G 3/4
- double-acting
- with magnetic piston
- Cushioning pneumatically, adjustable / Cushioning elastic
- Piston rod External thread
- ATEX optional
- Standards ISO 15552
- Compressed air connection Internal thread
- Working pressure min./max. 2 ... 10 bar
- Ambient temperature min./max. -20 ... 80 °C
- Medium temperature min./max. -20 ... 80 °C
- Medium Compressed air
- Max. particle size 50 µm
- Oil content of compressed air 0 ... 5 mg/m<sup>3</sup>
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm
	Stroke 25	R480627295	R480627367
	50	R480627296	R480627368
	80	R480627297	R480627369
	100	R480627298	R480627370
	125	R480627299	R480627371
	160	R480627300	R480627372
	200	R480627301	R480627373
	250	R480627302	R480627374
	320	R480627303	R480627375
	400	R480627304	R480627376
	500	R480627305	R480627377

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm
	Stroke 25	R480627283	R480627355
	50	R480627284	R480627356
	80	R480627285	R480627357
	100	R480627286	R480627358
	125	R480627287	R480627359
	160	R480627288	R480627360
	200	R480627289	R480627361
	250	R480627290	R480627362
	320	R480627291	R480627363
	400	R480627292	R480627364
	500	R480627293	R480627365

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm
	Stroke 25	R480635034	R480627583
	50	R480627572	R480627584
	80	R480627573	R480627585
	100	R480627574	R480627586
	125	R480627575	R480627587
	160	R480627576	R480627588
	200	R480635134	R480627589
	250	R480627578	R480627590
	320	R480627579	R480627591
	400	R480627580	R480627592
	500	R480627581	R480627593

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm
	Stroke 25	R480635020	R480627679
	50	R480627668	R480627680
	80	R480627669	R480627681
	100	R480627670	R480627682
	125	R480627671	R480627683
	160	R480627672	R480627684
	200	R480627673	R480627685
	250	R480627674	R480627686
	320	R480627675	R480627687
	400	R480627676	R480627688
	500	R480627677	R480627689

Max. Stroke is 1000mm

10 Days Asia Pacific QuickShip Catalog CT000086ENUS-07\_05-21

# AVENTICS™ Mini cylinder

Series  
**MNI**

## Features

- Ø 16-25 mm
- Ports M5, G 1/8
- double-acting
- Cushioning pneumatically, adjustable / Cushioning elastic
- corrosion-protected
- with integrated rear eye
- Piston rod External thread
- ATEX optional
- Standards ISO 6432
- Compressed air connection Internal thread
- Working pressure min./max. 1 ... 10 bar
- Ambient temperature min./max. -25 ... 80 °C
- Medium temperature min./max. -25 ... 80 °C
- Medium Compressed air
- Max. particle size 50 µm
- Oil content of compressed air 0 ... 5 mg/m³
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	16 mm	20 mm	25 mm
		M6 M5 6 mm M16x1,5	M8 G 1/8 8 mm M22x1.5	M10x1.25 G 1/8 10 mm M22x1.5
	Stroke 10	0822032201	0822033201	0822034201
	25	0822032202	0822033202	0822034202
	50	0822032203	0822033203	0822034203
	80	0822032204	0822033204	0822034204
	100	0822032205	0822033205	0822034205
	125	0822032206	0822033206	0822034206
	160	0822032207	0822033207	0822034207
	200	0822032208	0822033208	0822034208
	250	0822032214	0822033209	0822034209
	320	0822032240	0822033210	0822034210
	400	0822032213	0822033240	0822034211
	500	0822032228	0822033221	0822034212

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	16 mm	20 mm	25 mm
		M6 M5 6 mm M16x1,5	M8 G 1/8 8 mm M22x1.5	M10x1.25 G 1/8 10 mm M22x1.5
	Stroke 10	0822332201	0822333201	0822334201
	25	0822332202	0822333202	0822334202
	50	0822332203	0822333203	0822334203
	80	0822332204	0822333204	0822334204
	100	0822332205	0822333205	0822334205
	125	0822332206	0822333206	0822334206
	160	0822332207	0822333207	0822334207
	200	0822332208	0822333208	0822334208
	250	0822332209	0822333209	0822334209
	320	0822332210	0822333210	0822334210
	400	0822332219	0822333214	0822334211
	500	0822332220	0822333220	0822334212

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	16 mm	20 mm	25 mm
		M6 M5 6 mm M16x1,5	M8 G 1/8 8 mm M22x1.5	M10x1.25 G 1/8 10 mm M22x1.5
	Stroke 10	0822332501	0822333501	0822334501
	25	0822332502	0822333502	0822334502
	50	0822332503	0822333503	0822334503
	80	0822332504	0822333504	0822334504
	100	0822332505	0822333505	0822334505
	125	0822332506	0822333506	0822334506
	160	0822332507	0822333507	0822334507
	200	0822332508	0822333508	0822334508
	250	0822332509	0822333509	0822334509
	320	0822332510	0822333510	0822334510
	400	0822332511	0822333519	0822334511
	500	0822332512	0822333541	0822334512

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

# AVENTICS™ Short-stroke cylinder

Series  
**KHZ**

## Features

- Ø 25-40 mm
- Ports G 1/8
- double-acting
- with / without magnetic piston
- Cushioning elastic
- Piston rod Internal thread
- Compressed air connection Internal thread
- Ambient temperature min./max. -25 ... 80 °C
- Medium temperature min./max. -25 ... 80 °C
- Medium Compressed air
- Max. particle size 50 µm
- Oil content of compressed air 0 ... 5 mg/m<sup>3</sup>
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	25 mm M5 G 1/8	32 mm M6 G 1/8	40 mm M6 G 1/8
	Stroke 5	0822010530	0822010540	0822010550
	10	0822010531	0822010541	0822010551
	15	0822010532	0822010542	0822010552
	20	0822010533	0822010543	0822010553
	25	0822010534	0822010544	0822010554
	30	0822010535	0822010545	0822010555
	40	0822010536	0822010546	0822010556
	50	0822010537	0822010547	0822010557

Symbol	Piston Ø Piston Rod Thread Ports Piston Rod Ø	25 mm M5 G 1/8	32 mm M6 G 1/8	40 mm M6 G 1/8
	Stroke 5	0822010630	0822010640	0822010650
	10	0822010631	0822010641	0822010651
	15	0822010632	0822010642	0822010652
	20	0822010633	0822010643	0822010653
	25	0822010634	0822010644	0822010654
	30	0822010635	0822010645	0822010655
	40	0822010636	0822010646	0822010656
	50	0822010637	0822010647	0822010657
	80	-	0822010648	0822010658
	100	-	0822010649	0822010659

10 Days Asia Pacific QuickShip Catalog CT000086ENIUS-07\_05-21

## Features

- Ø 16-80 mm
- Ports M7, G 1/8, G 1/4, G 3/8
- double-acting
- with magnetic piston
- integrated guide
- Basic Version
- Cushioning pneumatically, adjustable
- Working pressure min./max. 2 ... 8 bar
- Ambient temperature min./max. -10 ... 60 °C
- Medium Compressed air
- Max. particle size 5 µm
- Oil content of compressed air 0 ... 1 mg/m<sup>3</sup>
- Pressure for determining piston forces 6.3 bar



## How to Order

Symbol	Piston Ø	16 mm	25 mm	32 mm	40 mm	50 mm	63 mm	80 mm
	Stroke 100	R480143252	R480141454	-	-	-	-	-
	200	R480143255	R480141455	R480141462	-	-	-	-
	300	R480143256	R480141456	R480141463	-	-	-	-
	400	R480143257	R480141457	R480141464	R480141472	R480148854	R480147730	R480147731
	500	R480143258	R480141458	R480141465	R480141473	R480146166	R480147713	R480147714
	600	R480143259	R480141459	R480141466	R480141474	R480149081	R480146014	R480146210
	700	R480143260	R480141460	R480141468	R480141475	R480145947	R480145948	R480155522
	800	-	R480141461	R480141469	R480141476	R480148600	R480147223	R480147699
	900	-	-	R480141470	R480141477	R480147023	R480146204	R480156948
	1000	-	-	R480141471	R480141478	R480149199	R480147036	R480147700

## Features

- Advanced Valve is more than just a valve system. AV is a complete automation solution that can continuously be adapted to the requirements of the application thanks to its consistent modularity. Its unique design, low weight, and optimized compact size with an increased function density offer clear product advantages. The Advanced Electronic System (AES) is responsible for serial data exchange between the controller and the AV family components. The flexible, modular structure of the AES and its wide range of variants offer additional advantages. Modify, exchange, upgrade – quickly and easily.



## How to Order

Symbol	*Part No	Series	Type	Pressure Range	Flow Rate	Voltage	Power	Response Time	Manual Override Type
	R422102430	AV03	2*3/2 NC/NC	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	300L/min	24VDC	0.55W	switch-on :16mm Swotch-off:20mm	with detent
	R422102426	AV03	5/2 Double	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	300L/min	24VDC	0.55W	switch-on :8mm Swotch-off:8mm	with detent
	R422102424	AV03	5/2 Single	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	300L/min	24VDC	0.55W	switch-on :12mm Swotch-off:17mm	with detent
	R422102428	AV03	5/3 Close Center	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	240L/min	24VDC	0.55W	switch-on :12mm Swotch-off:12mm	with detent
	R422103006	AV05	2*3/2 NC/NC	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	650L/min	24VDC	0.55W	switch-on :16mm Swotch-off:25mm	with detent
	R422103000	AV05	5/2 Single	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	700L/min	24VDC	0.55W	switch-on :17mm Swotch-off:26mm	with detent
	R422103002	AV05	5/2 Double	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	700L/min	24VDC	0.55W	switch-on :13mm Swotch-off:13mm	with detent
	R422103004	AV05	5/3 Close Center	Working pressure: -0.9 ... 10 bar Control pressure: 3 ... 8 bar	650L/min	24VDC	0.55W	switch-on :13mm Swotch-off:13mm	with detent

*Part No	Series	Type	Description	Connector IO/Communication	Connector Power
R412018218	AES	Gateway	PROFIBUS DP Module	Port 1 : Plug (male), M12, 5-pin, B-coded Port 2 : Socket (female), M12, 5-pin, B-coded	Plug (male), M12, 4-pin, A-coded
R412018221	AES	Gateway	DeviceNet Module	Port 1 : Plug (male), M12, 5-pin, A-coded Port 2 : Socket (female), M12, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412018222	AES	Gateway	EtherNET/IP	Port 1 & 2: Plug (male), M12, 4-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412018223	AES	Gateway	PROFINET IO	Port 1 & 2: Plug (male), M12, 4-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412018225	AES	Gateway	EtherCAT	Port 1 & 2: Plug (male), M12, 4-pin, A-coded	Plug (male), M12, 4-pin, A-coded
Not sell individually**	AES	Gateway	I/O link, Type A		
Not sell individually**	AES	Gateway	I/O link, Type B		
R412018254	AES	I/O	24DO1DSUB25	Socket, D-Sub, 25-pin	
R412018278	AES	I/O	4AI4M12-E	Socket (female), M12, 5-pin	
R412018233	AES	I/O	8DI8M8	Socket (female), M8, 3-pin	
R412018234	AES	I/O	16DI8M8	Socket (female), M8, 4-pin	
R412018248	AESA26:B27	I/O	8DO8M8	Socket (female), M8, 3-pin	

\* Note: The configure code with express scrop code is alos express.

\*\* Not sell individually, but you can configure with this protocol.

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Series

## AV03-AV05

### Accessoris

*Part No	Description	Series
R422102462	Blanking plate	AV03
R412015423	Base plate 2x for double solenoid valves for multipole plug	AV03
R412018088	Base plate 2x for bus coupler	AV03
R412018379	Base plate 3x for double solenoid valves for multipole plug	AV03
R412018380	Base plate 3x for bus coupler	AV03
R412018205	Base plate 4x for bus coupler	AV03
R412018331	Exhaust module 3, 5, and R with flat silencer	AV03
R412018337	Extension kit, supply plate, Field bus, no pressure zones	AV03
R412022575	Extension kit, supply plate, Multipole, no pressure zones	AV03
R412018613	Extension kit, supply plate, Field bus, separate pressure zones in channels 1/3/5	AV03
R412022576	Extension kit, supply plate, Multipole, separate pressure zones in channels 1/3/5	AV03
R412018350	End plate right	AV03
R412018334	End plate left, Sub-bus, Top connection	AV03
R412018335	End plate left, Sub-bus, Side connection	AV03
R412019468	Mounting kit for DIN rail	AV03/05
R412015398	End plate left	AES
R412015741	End plate right	AES
R412015400	Spring clamp element (10pcs)	AES
R422102526	Blanking plate	AV05
R412020087	Exhaust module 3, 5, and R with flat silencer	AV05
R412020065	Base plate 2x for double solenoid valves for multipole plug	AV05
R412020068	Base plate 2x for bus coupler	AV05
R412020067	Base plate 3x for double solenoid valves for multipole plug	AV05
R412020069	Base plate 3x for bus coupler	AV05
R412022824	Base plate 4x for bus coupler	AV05
R412020070	Extension kit, supply plate, Field bus, no pressure zones	AV05
R412020079	Extension kit, supply plate, Multipole, no pressure zones	AV05
R412020071	Extension kit, supply plate, Field bus, separate pressure zones in channels 1/3/5	AV05
R412020080	Extension kit, supply plate, Multipole, separate pressure zones in channels 1/3/5	AV05
R412020078	End plate right, Compressed air connection pilot connection & pilot exhaust	AV05
R412020076	End plate left, Sub-bus, Top connection	AV05
R412020077	End plate left, Sub-bus, Side connection	AV05
R412018339	Retaining brackets (10pcs)	AV03/05
8942051612	Plug, M12x1, 5-pin, A-coded, straight, 180° for CANopen, DeviceNet	CON-RD
R419801401	Plug, M12x1, 4-pin, D-coded, straight, 180° for Ethernet, EtherNET/IP, EtherCAT, POWERLINK	CON-RD
8941054054	Plug, M12x1, 5-pin, B-coded, straight, 180° for PROFIBUS DP	CON-RD
8942051602	Socket, M12x1, 5-pin, A-coded, straight, 180° for CANopen, DeviceNet	CON-RD
8941054044	Socket, M12x1, 5-pin, B-coded, straight, 180° for PROFIBUS DP	CON-RD
8941054064	Data final plug, Plug, M12x1, 4-pin, B-coded, straight, 180°, for PROFIBUS DP	CON-RD
8941054264	Data final plug, Plug, M12x1, 5-pin, A-coded, straight, 180°, for CANopen, DeviceNet	CON-RD
R412021676	Plug, M8x1, 3-pin, A-coded, straight, 180°	CON-RD
8941002392	Y connector, Plug, M12x1, 5-pin, A-coded, straight, 180°, Socket*2, M12x1, 5-pin, A-coded, straight, 180°	CON-RD
8941054324	Socket, M12x1, 4-pin, A-coded, straight, 180°, Power	CON-RD
8941054424	Socket, M12x1, 4-pin, A-coded, angled, 90°, Power	CON-RD

\* Note: The configure code with express scrop code is alos express.

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