

ASCO™ Advanced Redundant Control System

Series
141

The ASCO ARCS are specially designed redundant solution for emergency shut down valves (ON/OFF valves)⁽¹⁾ and various redundant configurations (1oo2, 2oo2 & 2oo3) to meet both safety & availability.

ASCO ARCS 2oo3 redundant solenoid valve piloting system combines the advantages of both 1oo2 & 2oo2 systems to achieve a high level of process safety and reliability.

⁽¹⁾ For fail safe application of control valves, please contact ASCO representative



Redundant Configurations

1oo2 - Redundancy built to achieve a high level of process safety

Hardware fault tolerant = 1 SIL3

2oo2 - Redundancy built to achieve high availability and prevent nuisance trips

Hardware fault tolerant = 0 SIL2

2oo3 - Redundancy built to achieve a high level of process safety and availability

Hardware fault tolerant = 1 SIL3

** 2oo3 configuration with 3 channels and 3oo4 configuration with 4 channels wiring

Solenoid Valves are Based on ASCO 327-Series, 3 Way

- Direct-acting solenoid valve technology
- Low friction = Low power = High reliability
- Reduced total cost of ownership (TCO)

Options Available

- Aluminum or stainless steel solenoid operator option including Flameproof or Intrinsically safe
- Manual operator or manual reset function
- Pressure gauge, visual indicator (stainless steel)
- Solenoid valve diagnostics (pressure or go switch options)
- Options with Ex proof and intrinsically safe wiring for pressure switches
- High flow and low temperature available

Full Range of Certifications and Approvals

327 certified for SIL applications (Exida)

Up to SIL 3 accreditation from Exida for redundant configuration

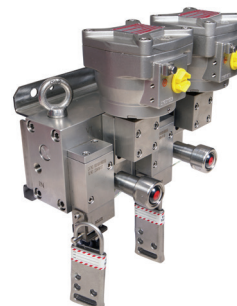
Online Maintenance

Common by pass - allows online replacement of solenoid valve

Individual isolation - 2oo2 & 2oo3 - Hot swapping that allow on-line replacement of solenoid valve while maintaining the system capability to bring the process to safe mode in the event of an emergency.

Features & Benefits

- Complete redundant solenoid valve configuration (1oo2/2oo2/2oo3)
- Compact and fully integrated module
- Direct valve-to-valve design
- Status indication & feedback
- Online maintenance-individual isolation / common bypass
- Safe & proven technology



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General**Differential pressure**

1 - 10 bar [1 bar = 100kPa]

Maximum viscosity65 cSt (mm²/s)**Response times**

75 - 100 ms

Fluid	Temperature Range (TS)	Seal Materials
Dry & Non Lubricated Air	-20°C to +80°C	FPM ⁽¹⁾
	-40°C to +40°C	(F)VMQ

⁽¹⁾ Highflow limited to -10°C**Specifications**

Pipe Size	Operating Pressure		Power Level	Prefix Solenoid Options														Operation	Fluid Temperature Ts ⁽³⁾ (°C)	Material of Construction	Basic Solenoid Valve	Basic Ordering Code for Solenoid Valve		
NPT	Min	Max	~/=	Exd				Ex e mb	Ex d m	Exi		Type 7/9		IP67	IP65									
				NF/WSNF	WSCR	JE	WSJE	EM/WSCREM	VCEF/VCEV	NFIS/WSNFIS/WSCRIS	WSTIS	EV	EVMF/EVMH	JBEF	WP/WS	SC								
1/4"	0/1 ⁽²⁾	10	BP						•				•		•			Auto Reset	-20 to +120	SS316L	327G042	536408		
									•				•		•			Auto Reset	-40 to +55	SS316L	327G052	545554		
									•				•		•			Manual Reset	-20 to +120	SS316L	327G032	536407		
			MP	•	•			•								•	•	Auto Reset	-20 to +120	SS316L	327B202	536398		
				•				•								•	•	Auto Reset	-50 to +60	SS316L	327B212	545550		
				•				•								•	•	Manual Reset	-20 to +120	SS316L	327B232	536401		
				•				•								•	•	Auto Reset	-20 to +120	Aluminum	327B203	536403		
			RP	•	•	•	•	•										•	•	Auto Reset	-20 to +120	SS316L	327B102	536397
				•	•	•	•	•										•	•	Auto Reset	-50 to +60	SS316L	327B112	545549
				•		•	•	•										•	•	Manual Reset	-20 to +120	SS316L	327B132	536400
				•		•	•	•										•	•	Manual Reset	-50 to +60	SS316L	327B182	545552
									•											Auto Reset	-20 to +120	SS316L	327H102	536404
									•											Manual Reset	-20 to +120	SS316L	327H132	536409
									•											Auto Reset	-50 to +60	SS316L	327H112	545555
									•											Manual Reset	-50 to +60	SS316L	327H182	545556
				•				•										•	•	Auto Reset	-20 to +120	Aluminum	327B103	536402
				LP	•	•	•		•			•									Auto Reset	-20 to +120	SS316L	327B302
			•		•	•		•			•									Auto Reset	-50 to +60	SS316L	327B312	545551
					•			•												Manual Reset	-20 to +120	SS316L	327B332	536406
					•			•												Manual Reset	-50 to +60	SS316L	327B382	545553
			•								•									Auto Reset	-20 to +120	Aluminum	327B303	536405
													•	•	•					Auto Reset	-20 to +60	SS316L	327H302	548533
													•	•	•					Auto Reset	-50 to +60	SS316L	327H312	548534
												•								Auto Reset	-20 to +60	SS316	307B005 ⁽¹⁾	503838
			1/2"			BP	•	•	•		•								•	•	Auto Reset	-10 to +90	SS316L	327A610
•	•	•					•								•	•	Auto Reset	-50 to +60	SS316L	327A606	543588			
MP	•	•		•			•								•	•	Manual Reset	-10 to +90	SS316L	327A620	543589			
	RP	•		•		•		•								•	•	Manual Reset	-40 to +40	SS316L	327A616	543590		

⁽¹⁾ For detail specification and dimensions, please refer to ASCO representative⁽²⁾ Zero bar applicable for redundant configuration without online maintenance and diagnostic feature options only⁽³⁾ Can be limited by the operator ambient temperature range for explosion proof solenoids**Flow Rate**

Size	Function	Flow Coefficient Kv	
		(m ³ /h)	(l/m)
1/4"	1002	0.19	3.2
	2002	0.39	6.5
	2003	0.29	4.8
1/2"	1002	0.39	6.5
	2002	0.76	13
	2003	0.64	11

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Explanation of Temperature Ranges of Solenoid Valves

Valve temperature range	The valve temperature range (TS) is determined by the selected seal material, the temperature range for proper operation of the valve and sometimes by the fluid (e.g. steam)
Operator ambient temperature range	The operator ambient temperature range is determined by the selected power level and the safety code
Total temperature range	The temperature range of the complete solenoid valve is determined by the limitations of both temperature range above

Electrical Characteristics

Prefix	Inrush (~)	Holding (~)	Power Rating		Operator Ambient Temperature Range	Safety Code	Coil Insulation Class	Electrical Enclosure Protection (EN60529)
	VA	VA	(~)	Hot/Cold =				
			W	W	(°C)			
Basic Power (BP)								
VCEF/VCEV	12	12	12	11.6	-40 to +52/60	II 2GD Ex db mb IIC T6/T5 Gb, Ex mb tb IIIC Db	F	IP66/67, Alu, SS
EV	12	12	12	11.6	-40 to +60	Class I, Division 1, Groups A, B, C, D, Class II, Division 1, Groups E, F, G	F	Type 7/9, moulded
JBEF	12	12	12	11.6	-40 to +60	Class I, Division 1, Groups B, C, D, Class II, Division 1, Groups E, F, G	F	Type 7/9, moulded, Alu junction box
JE	11.2	11.2	11.2	10	-40 to +60	Ex db IIC T4 Gb, Ex tb IIIC Db	H	IP66/67, Alu
NF/WSNF	14.1	14.1	14.1	11/14	-60 to +40/60/90	II2G Ex db IIC Gb T6/T5, II2D Ex tb IIIC Db	H	IP66/67, Alu/SS
WSCR	10	10	10	9/10	-60 to +25/60/90	II2G Ex db IIC Gb T5/T4/T3, II2D Ex t IIIC Db	H	IP66/67, SS
EM	14.1	14.1	14.1	11/14	-40 to +40	II2G Ex eb mb IIC Gb T3, II2D Ex tb IIIC Db	H	IP66/67, steel
WSCREM	10	10	10	9/10	-60 to +25/60/90	II2G Ex eb mb IIC Gb T5/T4/T3, II2D Ex tb IIIC Db	H	IP66/67, SS
WP/WS	14.1	14.1	14.1	11/14	-40 to +90	EN 60730	H	IP67, steel/SS
SC	14.1	14.1	14.1	11/14	-40 to +90	EN 60730	F	IP65, moulded
Medium Power (MP)								
JE	5.8	5.8	5.8	5.7	-10 to +60	Ex db IIC T5 Gb, Ex tb IIIC Db	H	IP66/67, Alu
NF/WSNF	5.8	5.8	5.8	5.2/5.7	-60 to +60/75/90	II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db	H	IP66/67, Alu/SS
WSCR	5.8	5.8	5.8	5.2/5.7	-60 to +40/60/90	II2G Ex db IIC Gb T6/T4/T3, II2D Ex t IIIC Db	H	IP66/67, SS
EM	5.8	5.8	5.8	5.2/5.7	-40 to +40/75/90	II2G Ex eb mb IIC Gb T5/T4, II2D Ex tb IIIC Db	H	IP66/67, steel
WSCREM	5.8	5.8	5.8	5.2/5.7	-60 to +40/60/90	II2G Ex eb mb IIC Gb T6/T4, II2D Ex tb IIIC Db	H	IP66/67, SS
WP/WS	5.8	5.8	5.8	5.2/5.7	-40 to +90	EN 60730	H	IP67, steel/SS
SC	5.8	5.8	5.8	5.2/5.7	-40 to +90	EN 60730	F	IP65, moulded
Reduced Power (RP)								
VCEF	-	-	-	3.9	-40 to +52/60	II 2GD Ex db mb IIC T6/T5 Gb, Ex mb tb IIIC Db	H	IP67, Alu
JE	3.7	3.7	3.7	3.6	-40 to +60	Ex db IIC T6 Gb, Ex tb IIIC Db	H	IP66/67, Alu
WSJE	3.7	3.7	3.7	3.6	-40 to +60	Ex db IIC T6 Gb, Ex tb IIIC Db	H	IP66/67, SS
NF/WSNF	3.7	3.7	3.7	3.2/3.6	-60 to +60	II2G Ex db IIC Gb T6, II2D Ex tb IIIC Db	H	IP66/67, Alu/SS
WSCR	3.7	3.7	3.7	3.2/3.6	-60 to +40/60/90	II2G Ex db IIC Gb T6/T5/T4, II2D Ex t IIIC Db	H	IP66/67, SS
EM	3.7	3.7	3.7	3.2/3.6	-40 to +40/55	II2G Ex eb mb IIC Gb T6/T5, II2D Ex tb IIIC Db	H	IP66/67, steel
WSCREM	3.7	3.7	3.7	3.2/3.6	-60 to +40/60/90	II2G Ex eb mb IIC Gb T6/T5/T4, II2D Ex tb IIIC Db	H	IP66/67, SS
WP/WS	3.7	3.7	3.7	3.2/3.6	-40 to +55	EN 60730	H	IP67, steel/SS
SC	3.7	3.7	3.7	3.2/3.6	-40 to +55	EN 60730	F	IP65, moulded
Low Power (LP)								
JE	2	2	2	1.8	-40 to +60	Ex db IIC T6 Gb, Ex tb IIIC Db	H	IP66/67, Alu
(NF/WSNF/WSCR)	1.85	1.85	1.85	1.5/1.8	-60 to +55	II2G Ex db IIC Gb T6, II2D Ex tb IIIC Db	H	IP66/67, Alu/SS
WSCREM	1.85	1.85	1.85	1.5/1.8	-60 to +55	II2G Ex eb mb IIC Gb T6, II2D Ex tb IIIC Db	H	IP66/67, SS
EV	-	-	-	2	-20 to +60	Class I, Division 1, Groups A, B, C, D, Class II, Division 1, Groups E, F, G	F	Type 7/9, moulded
EVMF	-	-	-	2.4	-50 to +60	Class I, Division 1, Groups A, B, C, D, Class II, Division 1, Groups E, F, G	F	Type 7/9, moulded, surge suppression
EVMH	-	-	-	2.9	-20 to +90	Class I, Division 1, Groups A, B, C, D, Class II, Division 1, Groups E, F, G	H	Type 7/9, moulded, surge suppression, high Ambient
JBEF	-	-	-	2	-40 to +60	Class I, Division 1, Groups B, C, D, Class II, Division 1, Groups E, F, G	F	Type 7/9, moulded, Alu junction box
Intrinsically Safe (IS)								
(NFIS/WSNFIS/WSCRIS)	-	-	-	0.5	-40 to +60	II2G Ex ia IIC T6 Gb, II2D Ex tb IIIC Db	H	IP66/67, Alu/SS
WSTIS	-	-	-	0.4	-20 to +60	Ex ia IIC T6 Gb, Ex t IIIC Db	H	IP66/67, SS

Electrical Connections

Code	Connection	Prefix
FN	Solenoid Housing, Die Cast Aluminum, Explosion Proof with 1/2 NPT Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	NF
FT	Solenoid Housing, Die Cast Aluminum, Explosion Proof with M20*1.5 Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	NFET
8E	Dual Chamber Solenoid Housing, Die Cast Aluminum, Explosion Proof with 1/2 NPT Cable Entry, Safety Code: Ex db IIC T6/T5/T4 Gb, Ex tb IIIC Db, ATEX/IEC Ex Certified	JE
8F	Dual Chamber Solenoid Housing, Die Cast Aluminum, Explosion Proof with M20 * 1.5 Cable Entry, Safety Code: Ex db IIC T6/T5/T4 Gb, Ex tb IIIC Db, ATEX/IEC Ex Certified	JEET
FS	Solenoid Housing, Stainless Steel, Explosion Proof with 1/2 NPT Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db (WSNF-IECEx) ATEX/IEC Ex Certified	WSNF
FU	Solenoid Housing, Stainless Steel, Explosion Proof with M20 * 1.5 Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db, (WSNF-IEC Ex) ATEX/IEC Ex Certified	WSNFET
WR	Solenoid Housing, Stainless Steel, Explosion Proof with 1/2 NPT Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4/T3, II2D Ex t IIIC Db, (WSCR-IEC Ex) ATEX/IEC Ex Certified	WSCR
X2	Solenoid Housing, Stainless Steel, Explosion Proof with M20 * 1.5 Cable Entry, Safety Code II2G Ex db IIC Gb T6/T5/T4/T3, II2D Ex t IIIC Db, (WSCR-IEC Ex) ATEX/IEC Ex Certified	WSCRET
8G	Dual Chamber, Stainless Steel Explosion Proof with Cable Entry 1/2 NPT, Safety Code: Ex db IIC Gb T6, Ex tb IIIC Db, ATEX/IEC Ex Certified	WSJE
8H	Dual Chamber, Stainless Steel Explosion Proof with Cable Entry M20*1.5, Safety Code: Ex db IIC Gb T6, Ex tb IIIC Db, ATEX/IEC Ex Certified	WSJEET
F1	Solenoid Housing, Die Cast Aluminum, Intrinsically Safe with 1/2 NPT Cable Entry, Safety Code II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	NFTIS
X1	Solenoid Housing, Die Cast Aluminum, Intrinsically Safe with M20 * 1.5 Cable Entry, Safety Code II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	NFETIS
FV	Solenoid Housing, Stainless Steel, Intrinsically Safe with 1/2 NPT Cable Entry, Safety Code II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	WSNFETIS
FW	Solenoid Housing, Stainless Steel, Intrinsically Safe with M20*1.5 Cable Entry, Safety Code II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	WSNFETIS
X3	Solenoid Housing, Stainless Steel, Intrinsically Safe with 1/2 NPT Cable Entry, Safety Code: II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	WSCRTIS
X4	Solenoid Housing, Stainless Steel, Intrinsically Safe with M20 * 1.5 Cable Entry, Safety Code: II2G Ex ia IIC Gb T6, II2D Ex tb IIIC Db (Standard Flow Only), ATEX/IEC Ex Certified	WSCRETIS
X5	Solenoid Housing, Stainless Steel, Intrinsically Safe with 1/2 NPT Cable Entry, Safety Code: Ex ia IIC Gb T6, Ex t IIIC Db (Standard Flow Only), CCOE	WSTIS
X6	Solenoid Housing, Stainless Steel, Intrinsically Safe with M20 * 1.5 Cable Entry, Safety Code: Ex ia IIC Gb T6, Ex t IIIC Db (Standard Flow Only), CCOE	WSETIS
VA	Solenoid Housing, Die Cast Aluminum, Explosion Proof with 1/2 NPT Cable Entry, Safety Code II2G Ex db mb IIC Gb T6/T5, II2D Ex mb tb IIIC Db (Standard Flow Only), Top Cable Entry, ATEX/IEC Ex Certified	VCEFAM
VB	Solenoid Housing, Die Cast Aluminum, Explosion Proof with M20*1.5 Cable Entry, Safety Code II2G Ex db mb IIC Gb T6/T5, II2D Ex mb tb IIIC Db (Standard Flow Only), Top Cable Entry, ATEX/IEC Ex Certified	VCEFAP
VJ	Solenoid Housing, Stainless Steel, Explosion Proof with 1/2 NPT Cable Entry, Safety Code II2G Ex db mb IIC Gb T6/T5, II2D Ex mb tb IIIC Db (Standard Flow Only), Top Cable Entry, ATEX/IEC Ex Certified	VCEVAM
VK	Solenoid Housing, Stainless Steel, Explosion Proof with M20*1.5 Cable Entry, Safety Code II2G Ex db mb IIC Gb T6/T5, II2D Ex mb tb IIIC Db (Standard Flow Only), Top Cable Entry, ATEX/IEC Ex Certified	VCEVAP
MV	Solenoid Housing, Steel, Increased Safety with 1/2"NPT Cable Entry, Safety Code: II2G Ex eb mb IIC Gb T6/T5/T4/T3, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	EM
MT	Solenoid Housing, Steel, Increased Safety with M20 * 1.5 Cable Entry, Safety Code: II2G Ex eb mb IIC Gb T6/T5/T4/T3, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	EMT
X7	Solenoid Housing, Stainless Steel, Increased Safety with 1/2"NPT Cable Entry, Safety Code: II2G Ex eb mb IIC Gb T6/T5/T4/T3, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	WSCREM
X8	Solenoid Housing, Stainless Steel, Increased Safety with M20 * 1.5 Cable Entry, Safety Code: II2G Ex eb mb IIC Gb T6/T5/T4/T3, II2D Ex tb IIIC Db, ATEX/IEC Ex Certified	WSCREMET
X9	Waterproof IP67 - with M20*1.5 Cable Gland, Metal Enclosure	WP
XA	Waterproof IP67 - M20*1.5 Cable Entry, Metal Enclosure	WPET
XC	Waterproof IP67 - with M20*1.5 Cable Gland, Stainless Steel Enclosure	WS
XD	Waterproof IP67 - M20*1.5 Cable Entry, Stainless Steel Enclosure	WSET
XE	Waterproof IP67 - 1/2"NPT Cable Entry, Metal Enclosure	WPT
XF	Waterproof IP67 - 1/2"NPT Cable Entry, Stainless Steel Enclosure	WST
S1	Spade Plug Connector (EN/IEC 60730), IP65	SC
H1	Explosionproof, Epoxy Molded Solenoid Housing with Integral ½" NPT Stainless Steel Conduit Hub and 18" Leads, UL/CSA Approvals, Class I Div 1 Groups A, B, C, D; Class II Div 1 Group E, F, G (UL/CSA -Solenoid Only)	EV
H6	Surge Suppression, Explosionproof, Epoxy Molded Solenoid Housing with Integral ½" NPT Stainless Steel Conduit Hub and 18" Leads, UL/CSA Approvals, Class I Div 1 Groups A, B, C, D; Class II Div 1 Group E, F, G, (UL/CSA -Solenoid Only)	EVMF/ EVMH
7N	Explosionproof Junction Box Enclosure, Die Cast Aluminum, ½" NPT Conduit Connection, UL/CSA Approvals, Class I, Div 1 Groups B, C, D; Class II, Div. 1, Groups E, F, G, (UL/CSA -Solenoid Only)	JBEF

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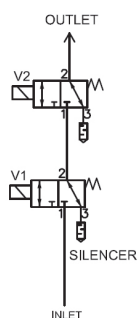
How to Order

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Port Type																	
8		NPT															
Product Series																	
141		ARCS DA Series															
Revision																	
A		Initial Release															
Function																	
1 1oo2 Manifold Assembly, without Online Maintenance & without Diagnostic																	
2 1oo2 Manifold Assembly, with Common By-pass & without Diagnostic																	
3 2oo2 Manifold Assembly, without Online Maintenance and Diagnostic																	
4 2oo2 Manifold Assembly, without Online Maintenance, with Diagnostic																	
5 2oo2 Manifold Assembly, with Common By-pass with Diagnostic																	
6 2oo2 Manifold Assembly, with Individual Isolation with Diagnostic																	
7 2oo3 Manifold Assembly, without Diagnostic and Online Maintenance																	
8 2oo3 Manifold Assembly, without Online Maintenance, with Diagnostic																	
9 2oo3 Manifold Assembly, with Common By-pass with Diagnostic																	
A 2oo3 Manifold Assembly, with Individual Isolation and with Diagnostic																	
Port Size / Body Material																	
1 Standard Flow-Port Size 1/4" NPT - Stainless Steel 316																	
2 Standard Flow-Port Size 1/4" NPT - Aluminum																	
5 High Flow-Port Size 1/2" NPT - Stainless Steel 316																	
Solenoid Valve-3 Way, Direct Acting																	
0 327B102 - Auto Reset, FPM Sealing, SS, Power 3.6/3.7W (RP)																	
1 327B202 - Auto Reset, FPM Sealing, SS, Power 5.7/5.8W (MP)																	
2 327B302 - Auto Reset, FPM Sealing, SS, Power 1.8W & IS 0.5W (LP)																	
3 327B112 - Auto Reset, FVMQ Sealing (Low Temperature), SS, Power 3.6/3.7W (RP) ⁽⁵⁾																	
4 327B212 - Auto Reset, FVMQ Sealing (Low Temperature), SS, Power 5.7/5.8W (MP) ⁽⁵⁾																	
5 327B312 - Auto Reset, FVMQ Sealing (Low Temperature), SS, Power 1.8W & IS 0.5W (LP) ⁽⁵⁾																	
7 327B132 - Tamper Proof Reset, FPM Sealing, SS, Power 3.6/3.7W (RP)																	
8 327B232 - Tamper Proof Reset, FPM Sealing, SS, Power 5.7/5.8W (MP)																	
9 327B332 - Tamper Proof Reset, FPM Sealing, SS, Power 1.8W (LP)																	
A 327B182 - Tamper Proof Reset, FVMQ Sealing (Low Temperature), SS, Power 3.6/3.7W (RP) ⁽⁵⁾																	
C 327B382 - Tamper Proof Reset, FVMQ Sealing (Low Temperature), SS, Power 1.8W (LP) ⁽⁵⁾																	
D 327G042 - Auto Reset, FPM/FKM Sealing Normally Closed, Stainless Steel, Power 11.6/12W. Fluid Temperature -20°C to +120°C																	
E 327G052 - Auto Reset, (F)VMQ (Low Temperature) Sealing Normally Closed, Stainless Steel, Power 11.6/12W. Fluid Temperature -40°C to +55°C ⁽⁵⁾																	
F 327G032 - Tamper Proof Reset, FPM/FKM Sealing Normally Closed, Stainless Steel, Power 11.6/12W. Fluid Temperature -20°C to +120°C																	
G 327H302 - Auto Reset, FKM Sealing Normally Closed, Stainless Steel, Power 2/2.7W. Fluid Temperature -20°C to +60°C																	
V 327H312 - Auto Reset, VMQ Sealing Normally Closed, Stainless Steel, Power 2/2.7W. Fluid Temperature -50°C to +60°C ⁽⁵⁾																	
H 327H102 - Auto Reset, FPM Sealing, SS, Power 3.9W (RP) ⁽⁴⁾																	
J 327H132 - Tamper Proof Reset, FPM Sealing, SS, Power 3.9W (RP) ⁽⁴⁾																	
K 327H112 - Auto Reset, FVMQ Sealing (Low Temperature), SS, Power 3.9W (RP) ⁽⁴⁾⁽⁵⁾																	
L 327H182 - Tamper Proof Reset, FVMQ Sealing (Low Temperature), SS, Power 3.9W (RP) ⁽⁴⁾⁽⁵⁾																	
M 327B103 - Auto Reset, FPM Sealing, Aluminum, Power 3.6/3.7W (RP) ⁽²⁾																	
N 327B203 - Auto Reset, FPM Sealing, Aluminum, Power 5.7/5.8W (MP) ⁽²⁾																	
P 327B303 - Auto Reset, FPM Sealing, Aluminum, Power 1.8W & IS 0.5W (LP) ⁽²⁾																	
Q 307B005 - Pilot Operated, Auto Reset, FPM Sealing, SS, Power IS 0.35W (LP) ⁽³⁾⁽⁴⁾																	
R 327A610 - High Flow Auto Reset, FPM Sealing, SS, Power 14/14.1W (BP) ⁽¹⁾																	
S 327A606 - High Flow Auto Reset, FVMQ Sealing (Low Temperature), SS, Power 14/14.1W (BP) ⁽¹⁾⁽⁵⁾																	
T 327A620 - High Flow Manual Reset, FPM Sealing, SS, Power 5.7/5.8W (MP) ⁽¹⁾																	
U 327A616 - High Flow Manual Reset, FVMQ Sealing (Low Temperature), SS, Power 3.6/3.7W (RP) ⁽¹⁾⁽⁵⁾																	
⁽¹⁾ Applicable only for high flow-1/2" in port size selection																	
⁽²⁾ Applicable only for aluminum version in body material selection																	
⁽³⁾ Applicable for electrical connection type X5 and X6.																	
For other specification and dimensions please contact ASCO representative																	
⁽⁴⁾ Applicable for electrical connection type H1																	
⁽⁵⁾ Selection in options list A01 & B01 are not applicable																	
Option List⁽⁸⁾																	
A00 No options																	
A01 SS Visual Indicator																	
A02 SS Pressure Gauge																	
B01 Pressure Switch - Potential Free for Intrinsically Safe Wiring																	
B02 Pressure Switch - Potential Free for Exproof Wiring (Flying Leads)																	
M01 with Manual Override ⁽⁷⁾																	
D01 INMETRO																	
D02 KOSHA																	
D03 CUTR																	
D04 CCC/NEPSI																	
D05 PESO																	
⁽⁷⁾ Manual override M01 option applicable for auto reset solenoid valve only																	
⁽⁸⁾ Select options using +																	
Example: A01+B01+D01																	
For multiple options, please use online configurator on the website to generate the part number or consult ASCO representative																	
Electrical Connection Type																	
FN		NF		VA		VCEFAM											
FT		NFET		VB		VCEFAP											
8E		JE		VJ		VCEVAM											
8F		JEET		VK		VCEVAP											
FS		WSNF		H1		EV											
FU		WSNFET		H6		EVMF/EVMH											
WR		WSCR		7N		JBEF											
X2		WSCRET		MV		EM											
8G		WSJE		MT		EMT											
8H		WSJEET		X7		WSCREM											
F1		NFTIS ⁽⁹⁾		X8		WSCREMET											
X1		NFETIS ⁽⁹⁾		X9		WP											
FV		WSNFETIS ⁽⁹⁾		XA		WPET											
FW		WSNFETIS ⁽⁹⁾		XC		WS											
X3		WSCRTIS ⁽⁹⁾		XD		WSET											
X4		WSCRETIS ⁽⁹⁾		XE		WPET											
X5		WSTIS ⁽⁹⁾		XF		WST											
X6		WSETIS ⁽⁹⁾		S1		SC											
⁽⁹⁾ Intrinsically safe voltage selection restricted to 24Vdc H1 option																	

Disclaimer: Selection chart shown for reference.

For detailed configuration/available options/other explosion proof operators, please use ARCS configurator in www.asco.com or contact local ASCO sales office.

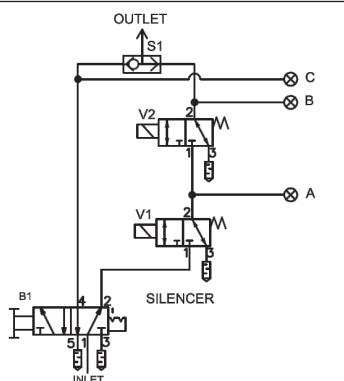
1oo2 without Online Maintenance and Diagnostic



V1 - VALVE 1
V2 - VALVE 2

Schematic 1

1oo2 with Common Bypass, without Diagnostic



V1 - VALVE 1
V2 - VALVE 2
B1 - BYPASS VALVE

S1 - SHUTTLE VALVE
A, B & C - INDICATORS

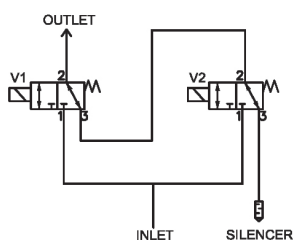
Schematic 2

1oo2 Logic Table

CH 1	CH 2	Outlet
V1	V2	
1	1	1
1	0	0
0	1	0
0	0	0

CH 1 - CHANNEL 1
CH 2 - CHANNEL 2
0 - VALVE DE-ENERGIZED
1 - VALVE ENERGIZED

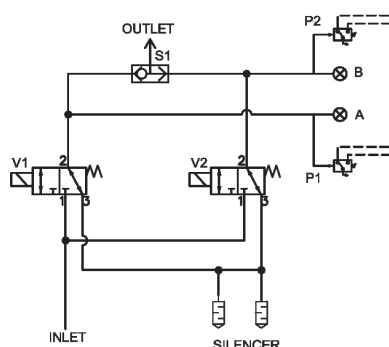
2oo2 without Online Maintenance and Diagnostic



V1 - VALVE 1
V2 - VALVE 2

Schematic 3

2oo2 without Online Maintenance with Diagnostic



V1 - VALVE 1
V2 - VALVE 2

S1 - SHUTTLE VALVE
A, B - INDICATORS
P1 & P2 - PRESSURE SWITCHES

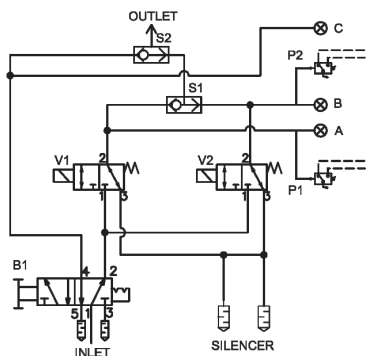
Schematic 4

2oo2 Logic Table

CH 1	CH 2	Outlet
V1	V2	
1	1	1
1	0	1
0	1	1
0	0	0

CH 1 - CHANNEL 1
CH 2 - CHANNEL 2
0 - VALVE DE-ENERGIZED
1 - VALVE ENERGIZED

2oo2 with Common Bypass and Diagnostic

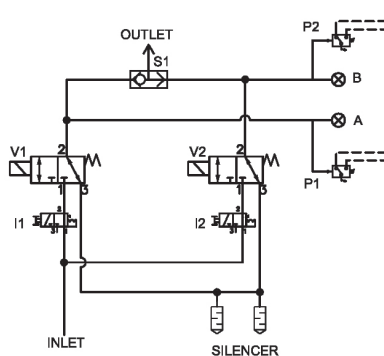


V1 - VALVE 1
V2 - VALVE 2
B1 - BYPASS VALVE

S1 & S2 - SHUTTLE VALVES
A, B & C - INDICATORS
P1 & P2 - PRESSURE SWITCHES

Schematic 5

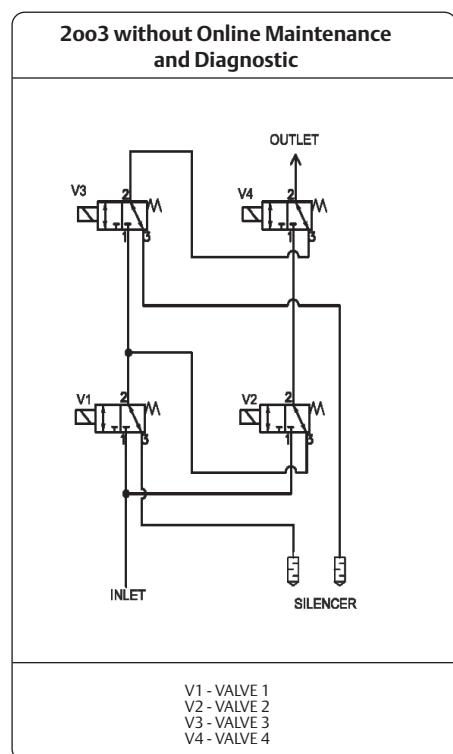
2oo2 with Individual Isolation and Diagnostic



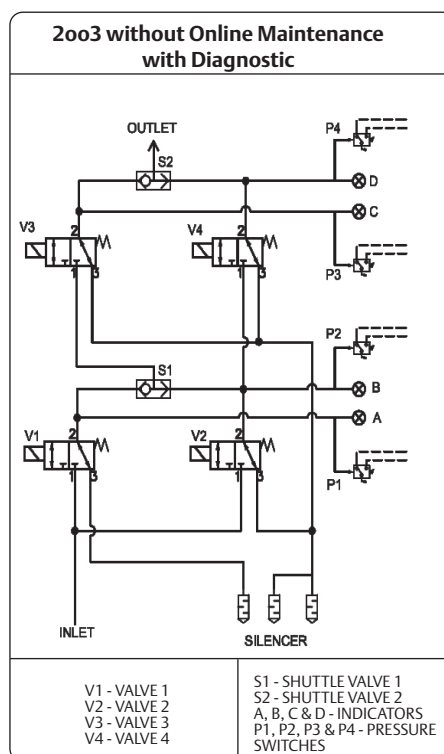
V1 - VALVE 1
V2 - VALVE 2
I1 - ISOLATION VALVE
I2 - ISOLATION VALVE

S1 - SHUTTLE VALVE
A, B - INDICATORS
P1 & P2 - PRESSURE SWITCHES

Schematic 6



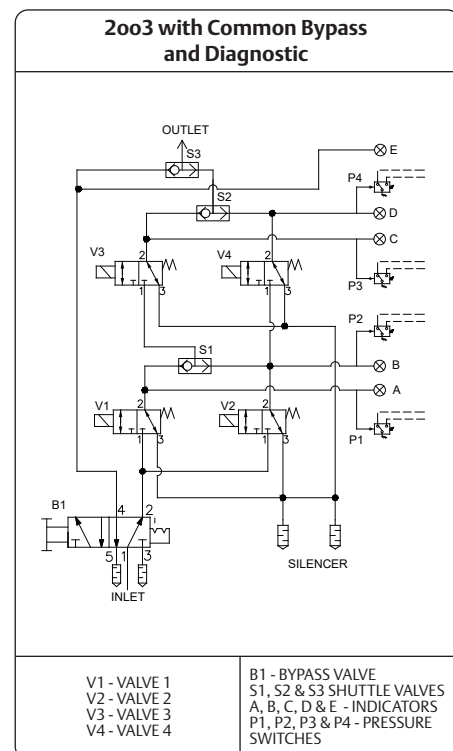
Schematic 7



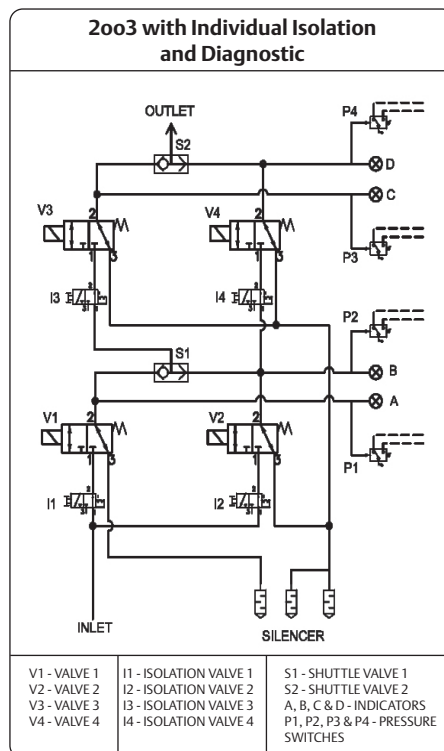
Schematic 8

2oo3 Logic Table*				
CH 1	CH 2	CH 3	Outlet	
V1	V2	V3	V4	
1	0	0	0	0
1	1	0	0	0
1	1	1	0	1
1	1	1	1	1
0	1	0	0	0
0	1	1	0	0
0	1	1	1	1
0	1	0	1	1
0	0	1	0	0
0	0	1	1	0
1	0	1	1	1
1	0	1	0	1
0	0	0	1	0
1	0	0	1	1
1	1	0	1	1
0	0	0	0	0

CH 1 - CHANNEL 1
CH 2 - CHANNEL 2
CH 3 - CHANNEL 3
0 - VALVE DE-ENERGIZED
1 - VALVE ENERGIZED
* FOR SCHEMATIC - 7



Schematic 9



Schematic A

2oo3 Logic Table*				
CH 1	CH 2	CH 3	Outlet	
V1	V4	V2	V3	
1	0	0	0	0
1	0	1	0	0
1	0	1	1	1
1	1	1	1	1
0	0	1	0	0
0	0	1	1	1
0	1	1	1	1
0	1	1	0	1
0	0	0	1	0
0	1	0	1	0
1	1	0	1	1
1	0	0	1	1
0	1	0	0	0
1	1	0	0	0
1	1	1	0	1
0	0	0	0	0

CH 1 - CHANNEL 1
CH 2 - CHANNEL 2
CH 3 - CHANNEL 3
0 - VALVE DE-ENERGIZED
1 - VALVE ENERGIZED
* FOR SCHEMATIC - 8, 9, A

Dimensions (mm), Weight (kg)



TYPE 01:
Epoxy moulded
SC : IEC 335 / ISO 4400

327B102/202/103/203/132/232/112/212/182
327A610/606/616/620



TYPE 02:
Metal, epoxy coated / AISI 316 SS
WP / WS : IEC 335
EM / WSEM : EN/IEC 60079-7, 60079-18
EN/IEC 60079-31

327B102/202/103/203/132/232/112/212/182
327A610/606/616/620



TYPE 03:
Aluminum, epoxy coated / AISI 316L SS
NF / WSNF : EN/IEC 60079-1, 60079-31
NFIS / WSNFIS : EN/IEC 60079-11, 60079-31

327B102/202/302/103/203/303/132/232/112/212/182/312
327A610/606/616/620



TYPE 04:
AISI 316L SS
WSCR : EN/IEC 60079-0, 60079-1, 60079-31
WSCREM : EN/IEC 60079-0, 60079-7, 60079-18
EN/IEC 60079-31
WSCRIS : EN/IEC 60079-0, 60079-11, 60079-31

327B102/202/302/332/112/312/382
327A610/606/616/620



TYPE 05:
Epoxy painted die cast aluminum/316L SS
VCEF : EN/IEC 60079-0, 60079-1,
60079-18, 60079-31
EN/ISO 80079-36
VCEV : EN/IEC 60079-1, 60079-18,
60079-31, 13463-1

327H102/132/112/182
327G032/042/052



TYPE 06:
Epoxy painted die cast aluminum/316L SS
JE/WSJE : EN/IEC 60079-0, 60079-1, 60079-31

327B102/B112/B302/B312/B132/B182
327A610/606/616/620



TYPE 07:
Epoxy moulded, Type 7/9
EV : Class I, Division 1, Groups A, B, C, D,
Class II, Division 1, Groups E, F, G
EVMF/EVMH : Surge Suppression,
Class I, Division 1, Groups A, B, C, D,
Class II, Division 1, Groups E, F, G

327G032/G042/G052/H302/H312

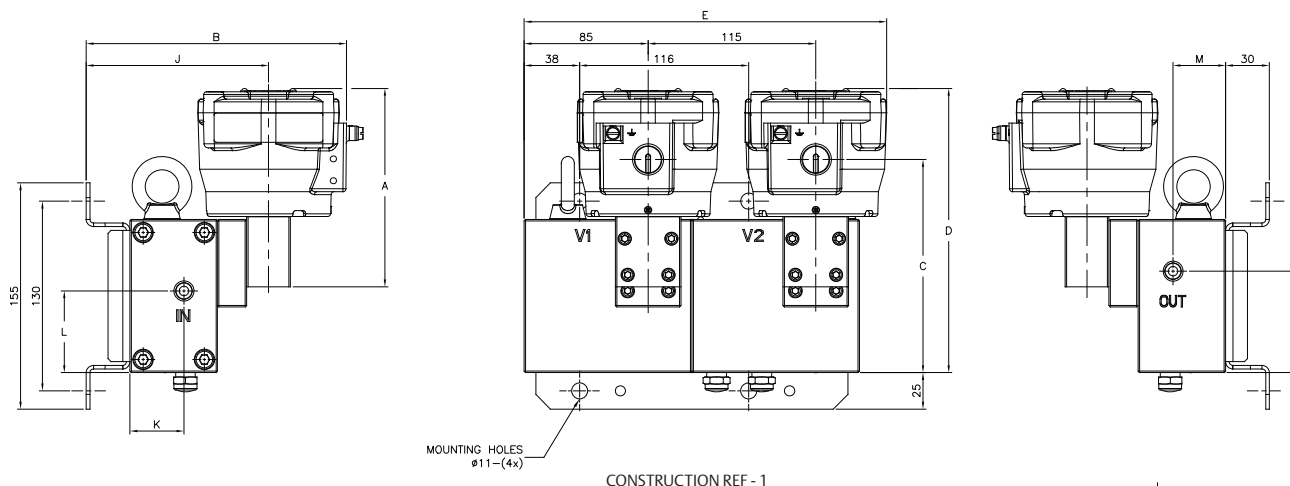


TYPE 08:
Epoxy moulded, aluminum junction box, Type 7/9
JBEF : Class I, Division 1, Groups B, C, D,
Class II, Division 1, Groups E, F, G

327G032/G042/G052/H302/H312

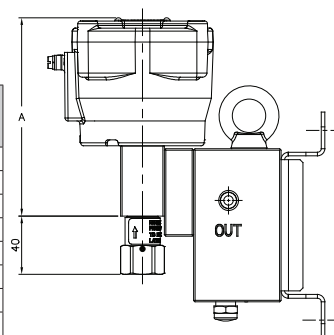
Dimensions (mm), Weight (kg)

1oo2 Configuration without Online Maintenance and Diagnostic

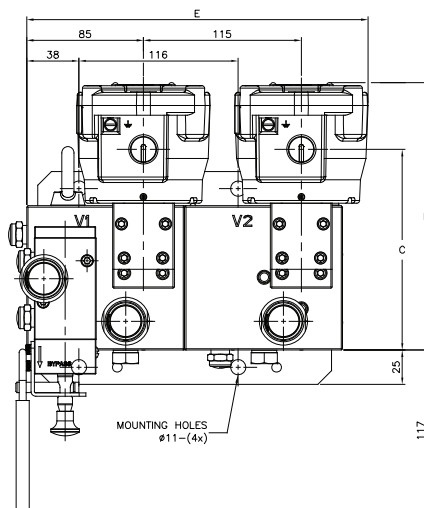
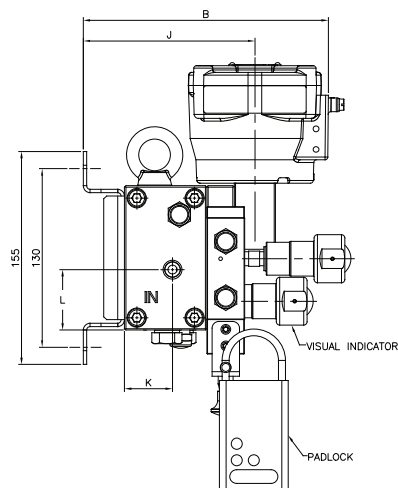


CONSTRUCTION REF - 1

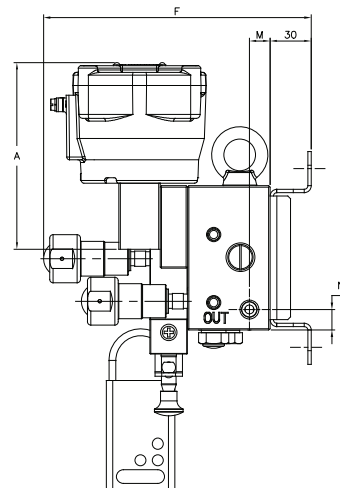
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/ 202/212	01	SC	109	190	-	168	230	125	37	56	36	70	16
		02	WP/WS/EM	112	205	-	171	239						17
		03	NF/WSNF	136	180	146	195	249						19/21
		04	WSCR/WSCREM	140	200	160	199	246						20
	327B102/112	06	JE/WSJE	130	239	-	189	240						18/21
		03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	249						19/21
	327B302/312	04	WSCR/WSCREM/WSCRIS	140	200	160	199	246						20
		06	JE	130	239	-	189	240						18
		01	SC	109	190	-	168	230						8
	327B103/203	02	WP/EM	112	205	-	171	239						8
		03	NF	136	180	146	195	249						11
		03	NF/NFIS	146	180	156	205	249						11
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	233						17
		05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233						17/18
	327G042/052	07	EV	99	177	133	158	230						17
		08	JBEF	118	281	134	177	244						19
		07	EV/EVMF/EVMH	102	183	134	161	231						17
	327H312/302	08	JBEF	118	281	134	177	244						19
		01	SC	134	175	-	166	230						17
		02	WP/WS/EM	140	185	126	171	239						17
		03	NF/WSNF	163	160	145	194	249						18/21
2 (MO/MANUAL RESET)	327A610/606	04	WSCR/WSCREM	167	180	159	198	246	105	36	51	35	68	20
		06	JE	147	219	-	178	240						18
	327B132/182/232	01	SC	109	190	-	168	230						16
		02	WP/WS/EM	112	205	-	171	239						17
		03	NF/WSNF	136	180	146	195	249						20/22
		06	JE/WSJE	130	239	-	189	240						18/21
		04	WSCR/WSCREM	140	200	160	199	246						21
		05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233						17/18
		07	EV	99	177	133	158	230						17
		08	JBEF	118	281	134	177	244						21
	327G032	05	VCEFAM/VCEFAP	109	230	-	168	233						17
		01	SC	134	175	-	166	230						16
	327H132/182	03	NF/WSNF	163	160	145	194	249						19/21
		04	WSCR/WSCREM	167	180	159	198	246						20
		06	JE	147	219	-	178	240						19
		02	WP/WS/EM	140	185	126	171	239						17



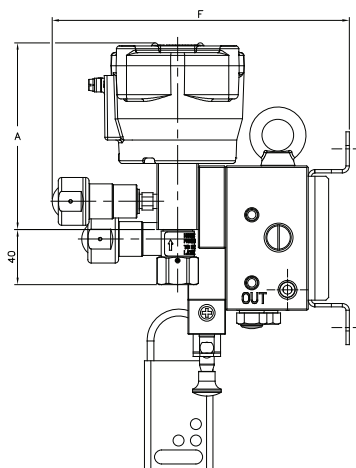
CONSTRUCTION REF - 2

Dimensions (mm), Weight (kg)**1002 Configuration with Common Bypass, without Diagnostic**

CONSTRUCTION REF - 1



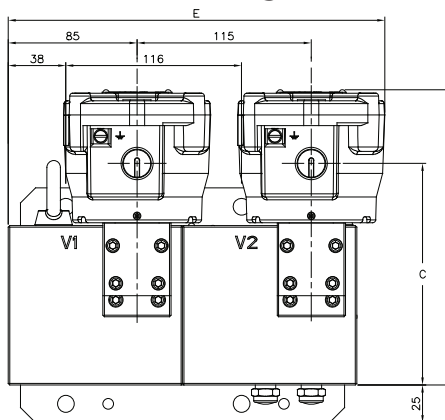
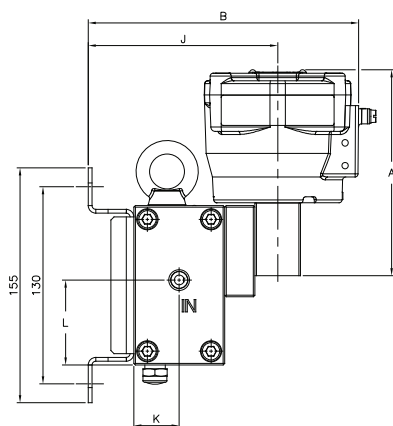
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F	Visual Indicator	Pressure Gauge	Approx. Weight (kg)
1 (AUTO RESET)	327B102/112/ 202/212	01	SC	109	190	-	168	230									18
		02	WP/WS/EM	112	205	-	171	239									19
		03	NF/WSNF	136	180	146	195	249									21/23
		04	WSCR/WSCREM	140	200	160	199	246									22
	327B102/112	06	JE/WSJE	130	239	-	189	240									20/23
	327B302/312	03	NF/WSNF/NFIS/ WSNFIS	146	180	156	205	249									21/23
		04	WSCR/WSCREM/ WSCRIS	140	200	160	199	246									22
		06	JE	130	239	-	189	240									20
	327B103/203	01	SC	109	190	-	168	230	125	35	44	15	15	195		202	10
		02	WP/EM	112	205	-	171	239									10
		03	NF	136	180	146	195	249									13
	327B303	03	NF/NFIS	146	180	156	205	249									13
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	233									19
	327G042/052	05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233									19/20
		07	EV	99	177	133	158	230									19
		08	JBEF	118	281	134	177	244									21
	327H312/302	07	EV/EVMF/EVMH	102	183	134	161	231									19
		08	JBEF	118	281	134	177	244									21
	327A610/606	01	SC	134	175	-	166	230									19
		02	WP/WS/EM	140	185	126	171	239									19
		03	NF/WSNF	163	160	145	194	249	105	33	34	20	50	202		181	20/23
		04	WSCR/WSCREM	167	180	159	198	246									22
		06	JE	147	219	-	178	240									20
2 (MO/MANUAL RESET)	327B132/182/232	01	SC	109	190	-	168	230									18
		02	WP/WS/EM	112	205	-	171	239									19
		03	NF/WSNF	136	180	146	195	249									22/23
		06	JE/WSJE	130	239	-	189	240									20/23
	327B332/382	04	WSCR/WSCREM	140	200	160	199	246	125	35	44	15	15	217		224	23
		05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233									19/20
		07	EV	99	177	133	158	230									19
	327H132/182	08	JBEF	118	281	134	177	244									21
		05	VCEFAM/VCEFAP	109	230	-	168	233									19
		01	SC	134	175	-	166	230									19
	327A620/616	03	NF/WSNF	163	160	145	194	249									21/23
		04	WSCR/WSCREM	167	180	159	198	246	105	33	34	20	50	202		181	22
		06	JE	147	219	-	178	240									21
	327A616	02	WP/WS/EM	140	185	126	171	239									19



CONSTRUCTION REF - 2

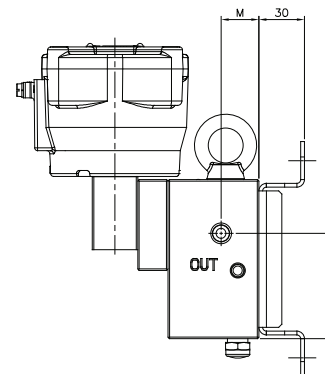
Dimensions (mm), Weight (kg)

2oo2 Configuration without Online Maintenance and Diagnostic

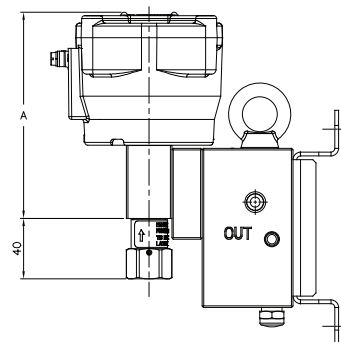


CONSTRUCTION REF - 1

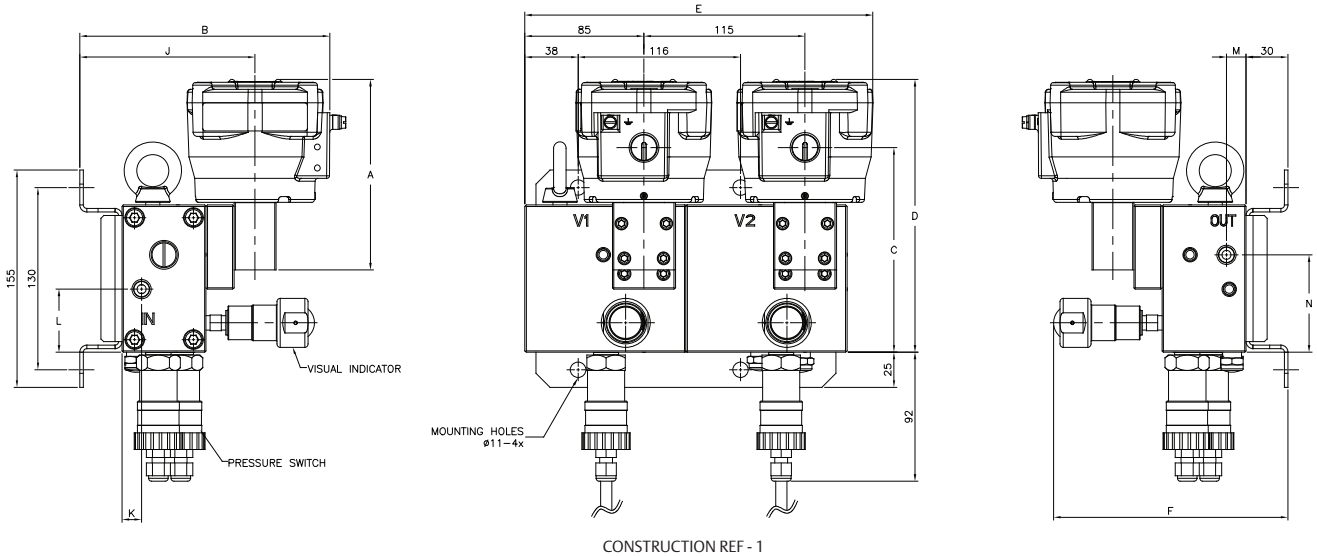
CONSTRUCTION REF - 1



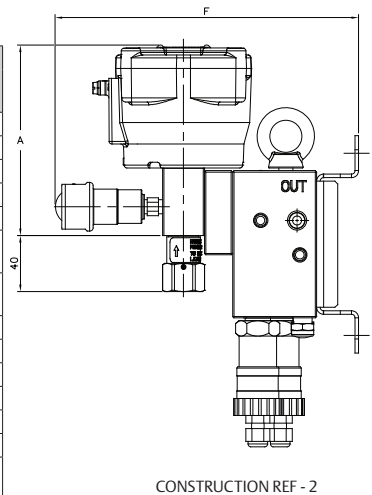
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/ 202/212	01	SC	109	190	-	168	230	125	30	56	25	70	16
		02	WP/WS/EM	112	205	-	171	239						17
		03	NF/WSNF	136	180	146	195	249						19/21
		04	WSCR/WSCREM	140	200	160	199	246						20
	327B102/112	06	JE/WSJE	130	239	-	189	240						18/21
		03	NF/WSNF/NFIS/ WSNFIS	146	180	156	205	249						19/21
	327B302/312	04	WSCR/WSCREM/ WSCRIS	140	200	160	199	246						20
		06	JE	130	239	-	189	240						18
		01	SC	109	190	-	168	230						8
	327B103/203	02	WP/EM	112	205	-	171	239						8
		03	NF	136	180	146	195	249						11
	327B303	03	NF/NFIS	146	180	156	205	249						11
		05	VCEFAM/VCEFAP	109	230	-	168	233						17
	327H102/112	05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233						17/18
		07	EV	99	177	133	158	230						17
		08	JBEF	118	281	134	177	244						19
	327H312/302	07	EV/EVMF/EVMH	102	183	134	161	231						17
		08	JBEF	118	281	134	177	244						19
		01	SC	134	175	-	166	230						17
	327A610/606	02	WP/WS/EM	140	185	126	171	239						17
		03	NF/WSNF	163	160	145	194	249						18/21
		04	WSCR/WSCREM	167	180	159	198	246						20
		06	JE	147	219	-	178	240						18
		01	SC	109	190	-	168	230						16
2 (MO/MANUAL RESET)	327B132/182/232	02	WP/WS/EM	112	205	-	171	239	125	30	56	25	70	17
		03	NF/WSNF	136	180	146	195	249						20/22
		06	JE/WSJE	130	239	-	189	240						18/21
	327B332/382	04	WSCR/WSCREM	140	200	160	199	246						21
		05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233						17/18
		07	EV	99	177	133	158	230						17
		08	JBEF	118	281	134	177	244						19
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	233						17
		01	SC	134	175	-	166	230						16
	327A620/616	03	NF/WSNF	163	160	145	194	249						19/21
		04	WSCR/WSCREM	167	180	159	198	246						20
		06	JE	147	219	-	178	240						19
		02	WP/WS/EM	140	185	126	171	239						17



CONSTRUCTION REF - 2

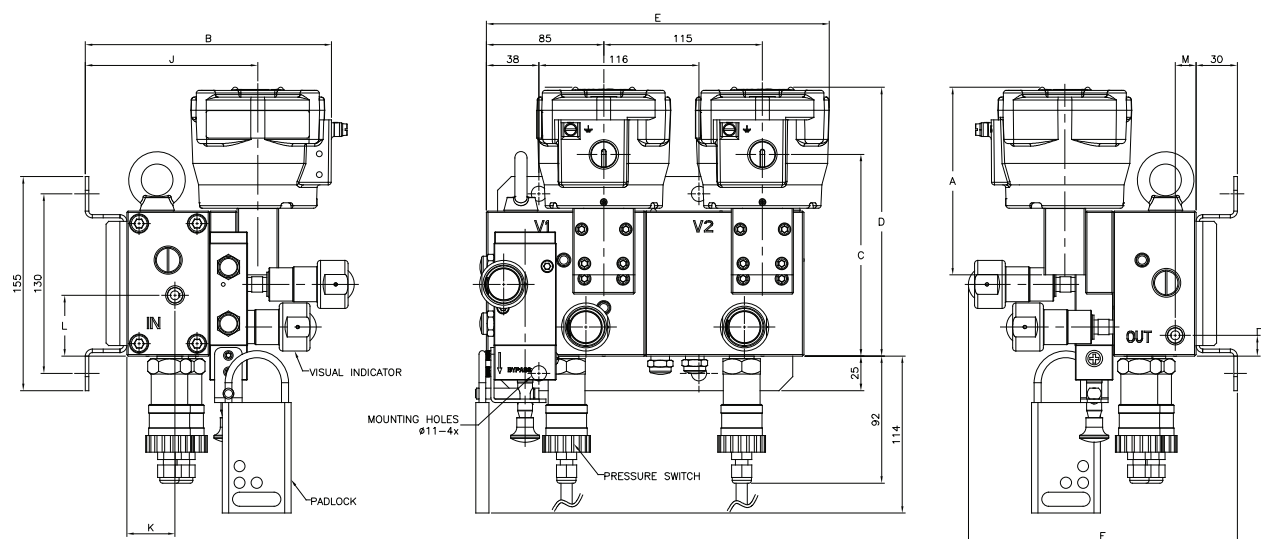
Dimensions (mm), Weight (kg)**2oo2 Configuration without Online Maintenance, with Diagnostic**

Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F		Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	230	125	14	45	14	70	167	174	17
		02	WP/WS/EM	112	205	-	171	239								18
		03	NF/WSNF	136	180	146	195	249								20/22
		04	WSCR/WSCREM	140	200	160	199	246								21
	327B102/112	06	JE/WSJE	130	239	-	189	240								19/22
		03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	249								20/22
		04	WSCR/WSCREM/WSCRIS	140	200	160	199	246								21
	327B302/312	06	JE	130	239	-	189	240								19
		01	SC	109	190	-	168	230								9
		02	WP/EM	112	205	-	171	239								9
	327B103/203	03	NF	136	180	146	195	249								12
		03	NF/NFIS	146	180	156	205	249								12
		05	VCEFAM/VCEFAP	109	230	-	168	233								18
	327G042/052	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	233								18/19
		07	EV	99	177	133	158	230								18
		08	JBEF	118	281	134	177	244								20
		07	EV/EVMF/EVMH	102	183	134	161	231								18
	327H312/302	08	JBEF	118	281	134	177	244								20
		01	SC	134	175	-	166	230								18
		02	WP/WS/EM	140	185	126	171	239								18
		03	NF/WSNF	163	160	145	194	249	105	14	51	14	68	202	181	19/22
	327A610/606	04	WSCR/WSCREM	167	180	159	198	246								21
		06	JE	147	219	-	178	240								19
		01	SC	109	190	-	168	230								18
2 (MO/MANUAL RESET)	327B132/182/232	02	WP/WS/EM	112	205	-	171	239								18
		03	NF/WSNF	136	180	146	195	249								21/23
		06	JE/WSJE	130	239	-	189	240								20/23
	327B332/382	04	WSCR/WSCREM	140	200	160	199	246	125	14	45	14	70	217	224	22
		05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	233								18
		07	EV	99	177	133	158	230								18
		08	JBEF	118	281	134	177	244								20
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	233								18/19
		01	SC	134	175	-	166	230	105	14	51	14	68	202	181	18
		03	NF/WSNF	163	160	145	194	249								20/22
		04	WSCR/WSCREM	167	180	159	198	246								21
	327A620/616	06	JE	147	219	-	178	240								20
		02	WP/WS/EM	140	185	126	171	239								18



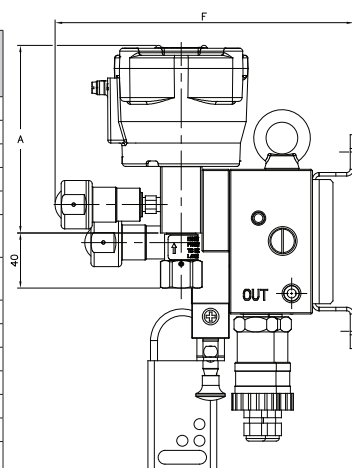
Dimensions (mm), Weight (kg)

2oo2 Configuration with Common Bypass, with Diagnostic



CONSTRUCTION REF - 1

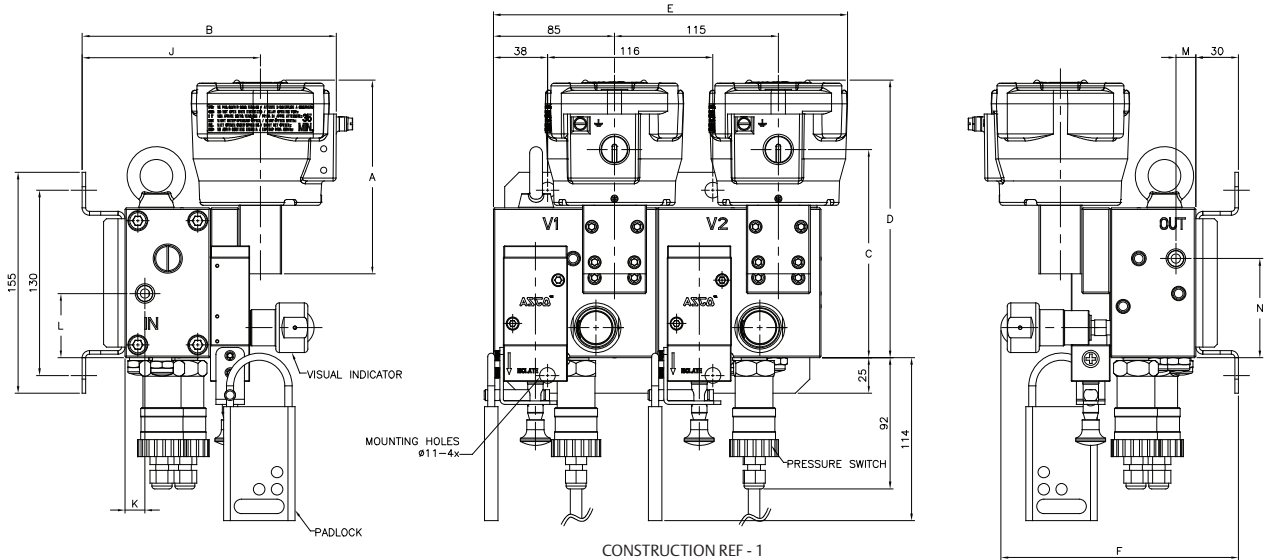
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F		Approx. Weight (Kg)									
														Visual Indicator	Pressure Gauge										
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	230	125	35	44	15	15	195	202		18								
		02	WP/WS/EM	112	205	-	171	239									19								
		03	NF/WSNF	136	180	146	195	249									21/23								
		04	WSCR/WSCREM	140	200	160	199	246									22								
	327B102/112	06	JE/WSJE	130	239	-	189	240									20/23								
	327B302/312	03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	249									21/23								
		04	WSCR/WSCREM/WSCRIS	140	200	160	199	246									22								
		06	JE	130	239	-	189	240									20								
	327B103/203	01	SC	109	190	-	168	230									10								
		02	WP/EM	112	205	-	171	239									10								
		03	NF	136	180	146	195	249									13								
	327B303	03	NF/NFIS	146	180	156	205	249									13								
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	233									19								
	327G042/052	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	233									19/20								
		07	EV	99	177	133	158	230									19								
		08	JBEF	118	281	134	177	244									21								
	327H312/302	07	EV/EVMF/EVMH	102	183	134	161	231									19								
		08	JBEF	118	281	134	177	244									21								
	327A610/606	01	SC	134	175	-	166	230									105	35	34	28	17	202	181		19
		02	WP/WS/EM	140	185	126	171	239																	19
03		NF/WSNF	163	160	145	194	249	20/23																	
04		WSCR/WSCREM	167	180	159	198	246	22																	
06		JE	147	219	-	178	240	20																	
2 (MO/MANUAL RESET)	327B132/182/232	01	SC	109	190	-	168	230	125	35	44	15	15	217	224		18								
		02	WP/WS/EM	112	205	-	171	239									19								
		03	NF/WSNF	136	180	146	195	249									22/24								
	327B132/182	06	JE/WSJE	130	239	-	189	240									20/23								
	327B332/382	04	WSCR/WSCREM	140	200	160	199	246									23								
	327G032	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	233									19/20								
		07	EV	99	177	133	158	230									19								
		08	JBEF	118	281	134	177	244									21								
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	233									19								
	327A620/616	01	SC	134	175	-	166	230									105	35	34	28	17	202	181		19
		03	NF/WSNF	163	160	145	194	249																	21/23
		04	WSCR/WSCREM	167	180	159	198	246																	22
		06	JE	147	219	-	178	240																	21
	327A616	02	WP/WS/EM	140	185	126	171	239									19								



CONSTRUCTION REF - 2

Dimensions (mm), Weight (kg)

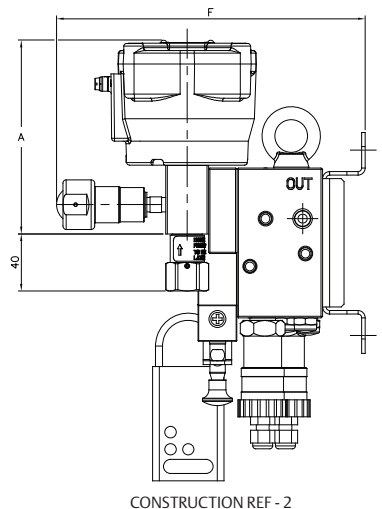
2oo2 Configuration with Individual Isolation, with Diagnostic



CONSTRUCTION REF - 1

F

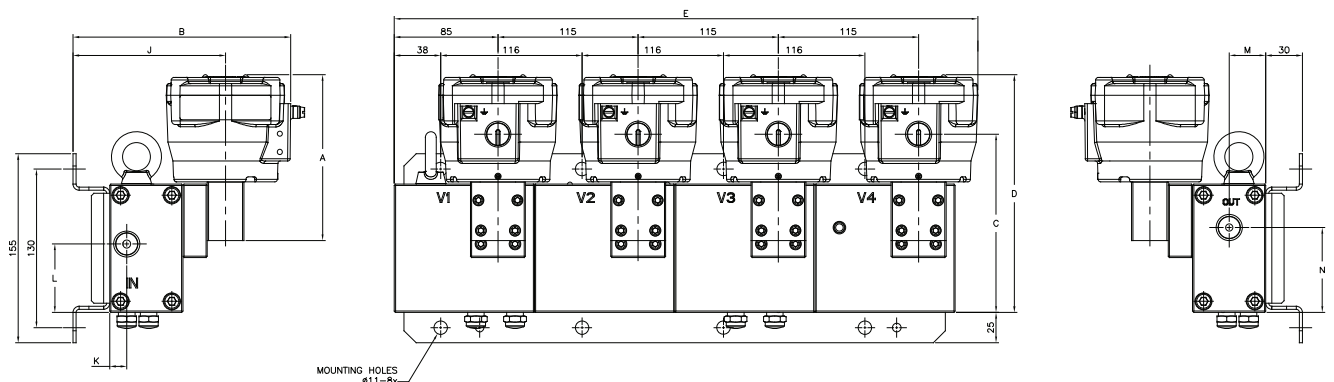
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F	Visual Indicator	Pressure Gauge	Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/ 202/212	01	SC	109	190	-	168	230	125	14	45	14	70	167	174		19
		02	WP/WS/EM	112	205	-	171	239									20
		03	NF/WSNF	136	180	146	195	249									22/25
		04	WSCR/WSCREM	140	200	160	199	246									23
	327B102/112	06	JE/WSJE	130	239	-	189	240									21/24
		03	NF/WSNF/NFIS/ WSNFIS	146	180	156	205	249									22/24
		04	WSCR/WSCREM/ WSCRIS	140	200	160	199	246									23
	327B302/312	06	JE	130	239	-	189	240									21
		01	SC	109	190	-	168	230									11
		02	WP/EM	112	205	-	171	239									11
	327B103/203	03	NF	136	180	146	195	249									14
		03	NF/NFIS	146	180	156	205	249									14
		05	VCEFAM/VCEFAP	109	230	-	168	233									20
	327H102/112	05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233									20/21
		07	EV	99	177	133	158	230									20
		08	JBEF	118	281	134	177	244									22
	327G042/052	07	EV/EVMF/EVMH	102	183	134	161	231									20
		08	JBEF	118	281	134	177	244									22
	327A610/606	01	SC	134	175	-	166	230									20
		02	WP/WS/EM	140	185	126	171	239									20
		03	NF/WSNF	163	160	145	194	249									21/24
		04	WSCR/WSCREM	167	180	159	198	246									23
		06	JE	147	219	-	178	240									21
		01	SC	109	190	-	168	230									20
2 (MO/MANUAL RESET)	327B132/182/232	02	WP/WS/EM	112	205	-	171	239									20
		03	NF/WSNF	136	180	146	195	249									23/25
		06	JE/WSJE	130	239	-	189	240									21/24
	327B332/382	04	WSCR/WSCREM	140	200	160	199	246									24
		05	VCEFAM/VCEFAP/ VCEVAM/VCEVAP	109	230	-	168	233									20/21
		07	EV	99	177	133	158	230									20
		08	JBEF	118	281	134	177	244									22
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	233									20
		01	SC	134	175	-	166	230									20
		03	NF/WSNF	163	160	145	194	249									21/24
	327A620/616	04	WSCR/WSCREM	167	180	159	198	246									23
		06	JE	147	219	-	178	240									22
		02	WP/WS/EM	140	185	126	171	239									20



CONSTRUCTION REF - 2

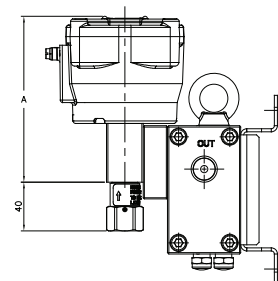
Dimensions (mm), Weight (kg)

2003 Configuration without Online Maintenance and Diagnostic

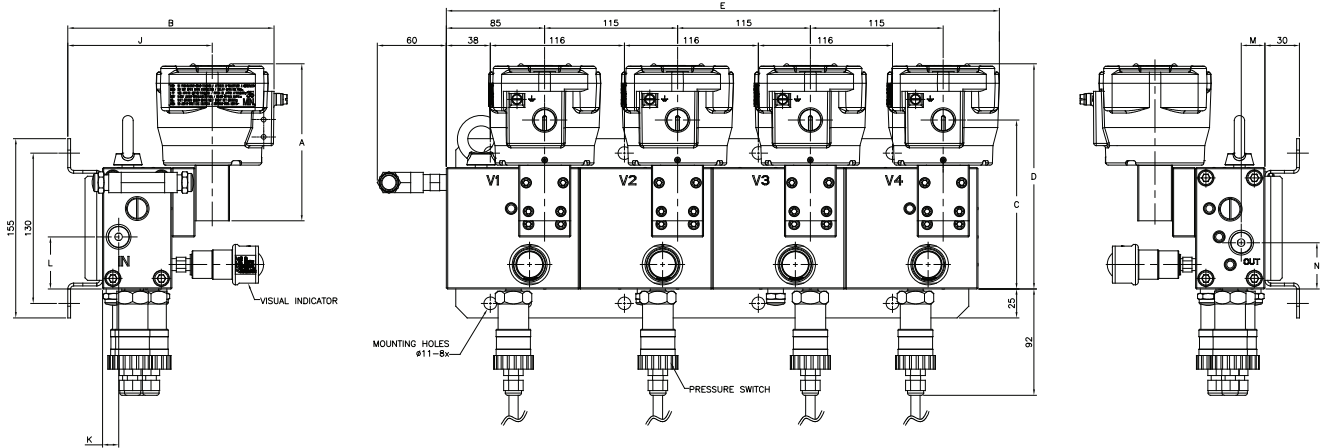


CONSTRUCTION REF - 1

Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	460	125	14	56	30	70	30
		02	WP/WS/EM	112	205	-	171	469						31
		03	NF/WSNF	136	180	146	195	479						36/41
		04	WSCR/WSCREM	140	200	160	199	476						38
	327B102/112	06	JE/WSJE	130	239	-	189	470						34/40
		03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	479						36/41
	327B302/312	04	WSCR/WSCREM/WSCRIS	140	200	160	199	476						38
		06	JE	130	239	-	189	470						34
	327B103/203	01	SC	109	190	-	168	460						14
		02	WP/EM	112	205	-	171	469						15
		03	NF	136	180	146	195	479						21
	327B303	03	NF/NFIS	146	180	156	205	479						21
		05	VCEFAM/VCEFAP	109	230	-	168	463						32
	327G042/052	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463						32/34
		07	EV	99	177	133	158	230						30
		08	JBEF	118	281	134	177	244						35
		07	EV/EVMF/EVMH	102	183	134	161	231						32
	327H312/302	08	JBEF	118	281	134	177	244						35
		01	SC	134	175	-	166	460						31
		02	WP/WS/EM	140	185	126	171	469						31
		03	NF/WSNF	163	160	145	194	479						34/40
	327A610/606	04	WSCR/WSCREM	167	180	159	198	476						37
		06	JE	147	219	-	178	470						34
2 (MO/MANUAL RESET)	327B132/182/232	01	SC	109	190	-	168	460	125	14	56	30	70	31
		02	WP/WS/EM	112	205	-	171	469						32
		03	NF/WSNF	136	180	146	195	479						37/42
		06	JE/WSJE	130	239	-	189	470						35/41
	327B332/382	04	WSCR/WSCREM	140	200	160	199	476						39
		05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463						32/34
		07	EV	99	177	133	158	230						31
		08	JBEF	118	281	134	177	244						36
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	463						32
		01	SC	134	175	-	166	460						32
		03	NF/WSNF	163	160	145	194	479						35/41
		04	WSCR/WSCREM	167	180	159	198	476						38
	327A620/616	06	JE	147	219	-	178	470						35
		02	WP/WS/EM	140	185	126	171	469						32

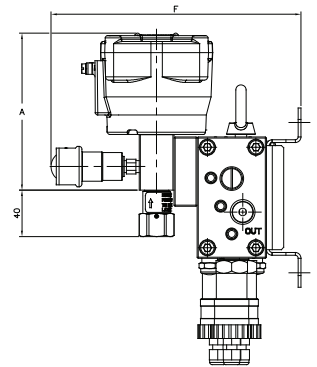


CONSTRUCTION REF - 2

Dimensions (mm), Weight (kg)**2003 Configuration without Online Maintenance, with Diagnostic**

CONSTRUCTION REF - 1

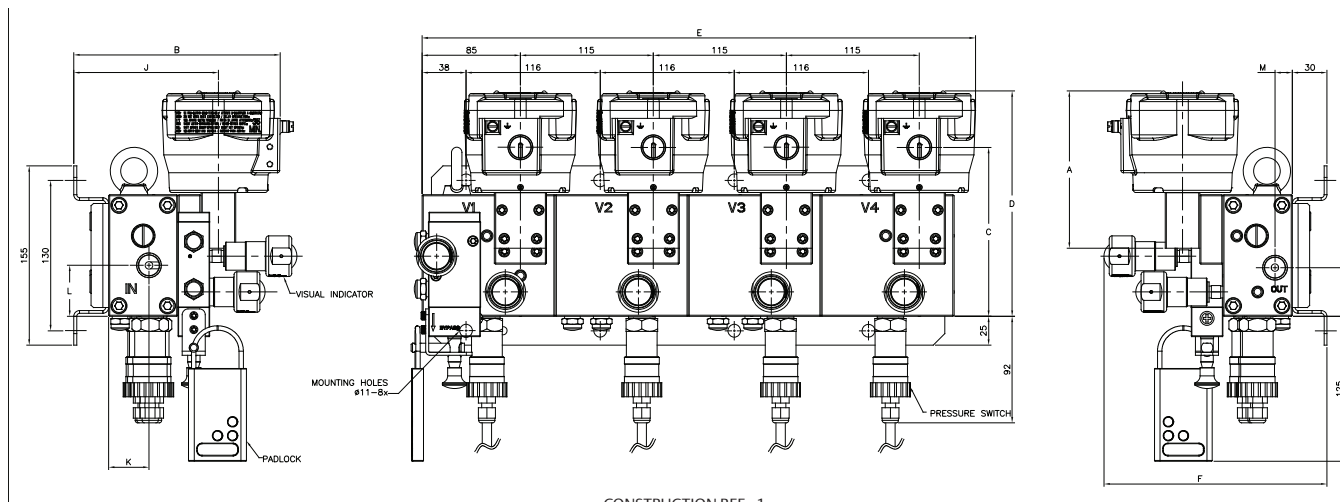
Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F		Approx. Weight (Kg)
														Visual Indicator	Pressure Gauge	
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	460	125	14	45	21	40	167	174	33
		02	WP/WS/EM	112	205	-	171	469								34
		03	NF/WSNF	136	180	146	195	479								39/44
		04	WSCR/WSCREM	140	200	160	199	476								41
	327B102/112	06	JE/WSJE	130	239	-	189	470								37/43
		03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	479								39/44
		04	WSCR/WSCREM/WSCRIS	140	200	160	199	476								41
	327B302/312	06	JE	130	239	-	189	470								37
		01	SC	109	190	-	168	460								17
		02	WP/EM	112	205	-	171	469								18
	327B103/203	03	NF	136	180	146	195	479								24
		03	NF/NFIS	146	180	156	205	479								24
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	463								35
	327G042/052	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463								35/37
		07	EV	99	177	133	158	230								33
		08	JBEF	118	281	134	177	244								38
	327H312/302	07	EV/EVMF/EVMH	102	183	134	161	231								35
		08	JBEF	118	281	134	177	244								38
		01	SC	134	175	-	166	460	105	14	51	15	68	202	181	34
		02	WP/WS/EM	140	185	126	171	469								34
		03	NF/WSNF	163	160	145	194	479								37/43
2 (MO/MANUAL RESET)	327A610/606	04	WSCR/WSCREM	167	180	159	198	476								40
		06	JE	147	219	-	178	470								37
		01	SC	109	190	-	168	460								34
		02	WP/WS/EM	112	205	-	171	469								35
	327B132/182/232	03	NF/WSNF	136	180	146	195	479								40/45
		06	JE/WSJE	130	239	-	189	470								38/44
		04	WSCR/WSCREM	140	200	160	199	476								42
	327G032	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463	125	14	45	21	40	217	224	35/37
		07	EV	99	177	133	158	230								34
		08	JBEF	118	281	134	177	244								39
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	463								35
	327A620/616	01	SC	134	175	-	166	460	105	14	51	15	68	202	181	35
		03	NF/WSNF	163	160	145	194	479								38/44
		04	WSCR/WSCREM	167	180	159	198	476								41
		06	JE	147	219	-	178	470								38
	327A616	02	WP/WS/EM	140	185	126	171	469								35



CONSTRUCTION REF - 2

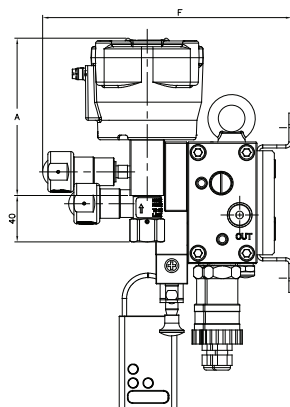
Dimensions (mm), Weight (kg)

2003 Configuration with Common Bypass, with Diagnostic

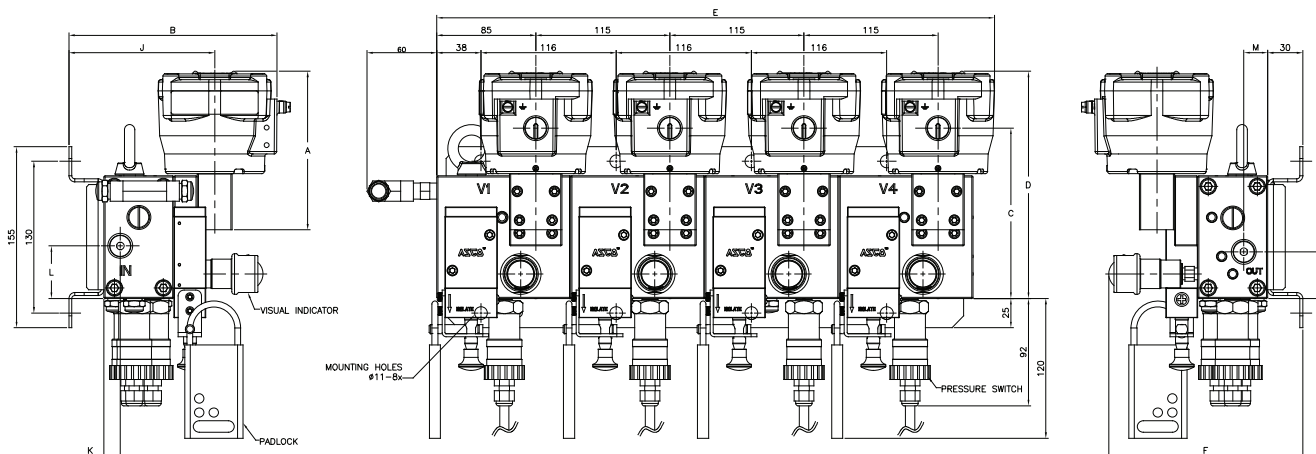


CONSTRUCTION REF - 1

Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F		Approx. Weight (Kg)
														Visual Indicator	Pressure Gauge	
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	460	125	35	44	14	43	195	202	34
		02	WP/WS/EM	112	205	-	171	469								35
		03	NF/WSNF	136	180	146	195	479								40/45
		04	WSCR/WSCREM	140	200	160	199	476								42
	327B102/112	06	JE/WSJE	130	239	-	189	470								38/44
	327B302/312	03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	479								40/45
		04	WSCR/WSCREM/WSCRIS	140	200	160	199	476								42
		06	JE	130	239	-	189	470								40
	327B103/203	01	SC	109	190	-	168	460								18
		02	WP/EM	112	205	-	171	469								19
		03	NF	136	180	146	195	479								25
	327B303	03	NF/NFIS	146	180	156	205	479								25
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	463								36
	327G042/052	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463								36/38
		07	EV	99	177	133	158	230								34
		08	JBEF	118	281	134	177	244								39
	327H312/302	07	EV/EVMF/EVMH	102	183	134	161	231								36
		08	JBEF	118	281	134	177	244								39
		327A610/606	01	SC	134	175	-	166								460
	02		WP/WS/EM	140	185	126	171	469								35
	03		NF/WSNF	163	160	145	194	479								38/44
04	WSCR/WSCREM		167	180	159	198	476	41								
06	JE		147	219	-	178	470	38								
2 (MO/MANUAL RESET)	327B132/182/232	01	SC	109	190	-	168	460	125	35	44	14	43	217	224	35
		02	WP/WS/EM	112	205	-	171	469								36
		03	NF/WSNF	136	180	146	195	479								41/46
	327B132/182	06	JE/WSJE	130	239	-	189	470								39/45
	327B332/382	04	WSCR/WSCREM	140	200	160	199	476								43
	327G032	05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463								36/38
		07	EV	99	177	133	158	230								35
		08	JBEF	118	281	134	177	244								40
	327H132/182	05	VCEFAM/VCEFAP	109	230	-	168	463								36
	327A620/616	01	SC	134	175	-	166	460								36
		03	NF/WSNF	163	160	145	194	479								39/45
		04	WSCR/WSCREM	167	180	159	198	476								42
		06	JE	147	219	-	178	470								39
	327A616	02	WP/WS/EM	140	185	126	171	469								36

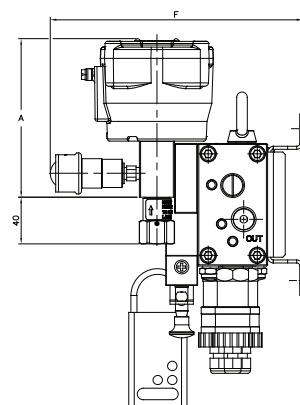


CONSTRUCTION REF - 2

Dimensions (mm), Weight (kg)**2003 Configuration with Individual Isolation, with Diagnostic**

CONSTRUCTION REF - 1

Construction Ref	Basic Catalog No.	Type	Enclosure	A	B	C	D	E	J	K	L	M	N	F	Visual Indicator	Pressure Gauge	Approx. Weight (Kg)
1 (AUTO RESET)	327B102/112/202/212	01	SC	109	190	-	168	460									36
		02	WP/WS/EM	112	205	-	171	469									37
		03	NF/WSNF	136	180	146	195	479									42/47
		04	WSCR/WSCREM	140	200	160	199	476									44
	327B102/112	06	JE/WSJE	130	239	-	189	470									40/46
		03	NF/WSNF/NFIS/WSNFIS	146	180	156	205	479									42/47
	327B302/312	04	WSCR/WSCREM/WSCRIS	140	200	160	199	476									44
		06	JE	130	239	-	189	470									42
		01	SC	109	190	-	168	460	125	14	45	21	40	167	174		20
	327B103/203	02	WP/EM	112	205	-	171	469									21
		03	NF	136	180	146	195	479									27
		03	NF/NFIS	146	180	156	205	479									27
	327H102/112	05	VCEFAM/VCEFAP	109	230	-	168	463									38
		05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463									38/40
		07	EV	99	177	133	158	230									36
	327H312/302	08	JBEF	118	281	134	177	244									41
		07	EV/EVMF/EVMH	102	183	134	161	231									38
		08	JBEF	118	281	134	177	244									41
	327A610/606	01	SC	134	175	-	166	460									37
		02	WP/WS/EM	140	185	126	171	469									37
		03	NF/WSNF	163	160	145	194	479	105	14	45	15	68	202	181		40/46
		04	WSCR/WSCREM	167	180	159	198	476									43
		06	JE	147	219	-	178	470									40
2 (MO/MANUAL RESET)	327B132/182/232	01	SC	109	190	-	168	460									37
		02	WP/WS/EM	112	205	-	171	469									38
		03	NF/WSNF	136	180	146	195	479									43/48
		06	JE/WSJE	130	239	-	189	470									41/47
	327B332/382	04	WSCR/WSCREM	140	200	160	199	476	125	14	45	21	40	217	224		45
		05	VCEFAM/VCEFAP/VCEVAM/VCEVAP	109	230	-	168	463									38/40
		07	EV	99	177	133	158	230									37
	327G032	08	JBEF	118	281	134	177	244									42
		05	VCEFAM/VCEFAP	109	230	-	168	463									38
		01	SC	134	175	-	166	460									38
	327A620/616	03	NF/WSNF	163	160	145	194	479	105	14	45	15	68	202	181		41/47
		04	WSCR/WSCREM	167	180	159	198	476									44
		06	JE	147	219	-	178	470									41
	327A616	02	WP/WS/EM	140	185	126	171	469									38



CONSTRUCTION REF - 2

Spares Code

Solenoid Valve

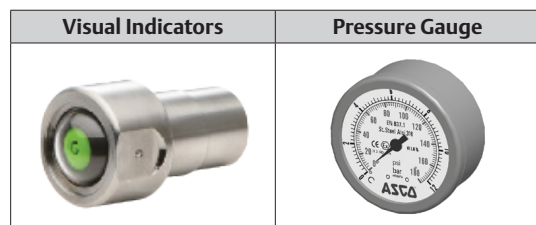
Description: ASCO 327 series, 3/2 way, direct acting, normally closed, 5.7mm/12mm orifice, stainless steel 316/aluminum

X	327	536397	001	H1																																																																																																										
Special Mounting for 141 Series X Valve Series 327 307 Ordering Code <table border="1"> <tr><td>536397</td><td>327B102 Basic Catalog</td></tr> <tr><td>536398</td><td>327B202 Basic Catalog</td></tr> <tr><td>536399</td><td>327B302 Basic Catalog</td></tr> <tr><td>536400</td><td>327B132 Basic Catalog</td></tr> <tr><td>536401</td><td>327B232 Basic Catalog</td></tr> <tr><td>536402</td><td>327B103 Basic Catalog</td></tr> <tr><td>536403</td><td>327B203 Basic Catalog</td></tr> <tr><td>536404</td><td>327H102 Basic Catalog</td></tr> <tr><td>536405</td><td>327B303 Basic Catalog</td></tr> <tr><td>536406</td><td>327B332 Basic Catalog</td></tr> <tr><td>536407</td><td>327G032 Basic Catalog</td></tr> <tr><td>536408</td><td>327G042 Basic Catalog</td></tr> <tr><td>536409</td><td>327H132 Basic Catalog</td></tr> <tr><td>545549</td><td>327B112 Basic Catalog</td></tr> <tr><td>545550</td><td>327B212 Basic Catalog</td></tr> <tr><td>545551</td><td>327B312 Basic Catalog</td></tr> <tr><td>545552</td><td>327B182 Basic Catalog</td></tr> <tr><td>545553</td><td>327B382 Basic Catalog</td></tr> <tr><td>545554</td><td>327G052 Basic Catalog</td></tr> <tr><td>545555</td><td>327H112 Basic Catalog</td></tr> <tr><td>545556</td><td>327H182 Basic Catalog</td></tr> <tr><td>548533</td><td>327H302 Basic Catalog</td></tr> <tr><td>548534</td><td>327H312 Basic Catalog</td></tr> <tr><td>543587</td><td>327A610 Basic Catalog (High Flow)</td></tr> <tr><td>543588</td><td>327A606 Basic Catalog (High Flow)</td></tr> <tr><td>543589</td><td>327A620 Basic Catalog (High Flow)</td></tr> <tr><td>543590</td><td>327A616 Basic Catalog (High Flow)</td></tr> <tr><td>503838</td><td>307B005⁽¹⁾ Basic Catalog</td></tr> </table> ⁽¹⁾ Selection of base catalog no. 307B005 will restrict to the voltage code H1 and solenoid operator codes WSTIS/WSETIS					536397	327B102 Basic Catalog	536398	327B202 Basic Catalog	536399	327B302 Basic Catalog	536400	327B132 Basic Catalog	536401	327B232 Basic Catalog	536402	327B103 Basic Catalog	536403	327B203 Basic Catalog	536404	327H102 Basic Catalog	536405	327B303 Basic Catalog	536406	327B332 Basic Catalog	536407	327G032 Basic Catalog	536408	327G042 Basic Catalog	536409	327H132 Basic Catalog	545549	327B112 Basic Catalog	545550	327B212 Basic Catalog	545551	327B312 Basic Catalog	545552	327B182 Basic Catalog	545553	327B382 Basic Catalog	545554	327G052 Basic Catalog	545555	327H112 Basic Catalog	545556	327H182 Basic Catalog	548533	327H302 Basic Catalog	548534	327H312 Basic Catalog	543587	327A610 Basic Catalog (High Flow)	543588	327A606 Basic Catalog (High Flow)	543589	327A620 Basic Catalog (High Flow)	543590	327A616 Basic Catalog (High Flow)	503838	307B005 ⁽¹⁾ Basic Catalog	Voltage <table border="1"> <tr><td>H1</td><td>24V DC</td></tr> <tr><td>H3</td><td>12V DC</td></tr> <tr><td>H9</td><td>48V DC</td></tr> <tr><td>HJ</td><td>110V DC</td></tr> <tr><td>HD</td><td>120V DC</td></tr> <tr><td>J1</td><td>125V DC</td></tr> <tr><td>HQ</td><td>24V/50-60HZ AC</td></tr> <tr><td>JY</td><td>110V/50-60HZ AC</td></tr> <tr><td>HC</td><td>115V/50-60HZ AC</td></tr> <tr><td>HA</td><td>120V/50-60HZ AC</td></tr> <tr><td>JV</td><td>220V/50-60HZ AC⁽²⁾</td></tr> <tr><td>HH</td><td>230V/50-60HZ AC⁽²⁾</td></tr> <tr><td>F1</td><td>24V DC</td></tr> <tr><td>F3</td><td>12V DC</td></tr> <tr><td>F9</td><td>48V DC</td></tr> <tr><td>FJ</td><td>110V DC</td></tr> <tr><td>FD</td><td>120V DC</td></tr> <tr><td>E1</td><td>125V DC</td></tr> <tr><td>FQ</td><td>24V/50-60HZ AC</td></tr> <tr><td>EY</td><td>110V/50-60HZ AC</td></tr> <tr><td>FC</td><td>115V/50-60HZ AC</td></tr> <tr><td>FA</td><td>120V/50-60HZ AC</td></tr> <tr><td>EV</td><td>220V/50-60HZ AC⁽²⁾</td></tr> <tr><td>FH</td><td>230V/50-60HZ AC⁽²⁾</td></tr> </table> ⁽²⁾ Not applicable for low and reduced power options	H1	24V DC	H3	12V DC	H9	48V DC	HJ	110V DC	HD	120V DC	J1	125V DC	HQ	24V/50-60HZ AC	JY	110V/50-60HZ AC	HC	115V/50-60HZ AC	HA	120V/50-60HZ AC	JV	220V/50-60HZ AC ⁽²⁾	HH	230V/50-60HZ AC ⁽²⁾	F1	24V DC	F3	12V DC	F9	48V DC	FJ	110V DC	FD	120V DC	E1	125V DC	FQ	24V/50-60HZ AC	EY	110V/50-60HZ AC	FC	115V/50-60HZ AC	FA	120V/50-60HZ AC	EV	220V/50-60HZ AC ⁽²⁾	FH	230V/50-60HZ AC ⁽²⁾	Electrical Connection/Enclosure Protection⁽³⁾⁽⁴⁾ *** Three digit code for applicable Electrical connection and other options ⁽³⁾ Refer ASCO representative for applicable electrical connection/enclosure protection and code (3 digit) ⁽⁴⁾ Refer solenoid operator chart 
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Spares Code**3 Way Push-Pull Manual Valve with LOTO**

Description: ASCO 551 series, 3/2 way, manual push button operated, normally closed, with 6 & 8mm orifice, stainless steel 316 and lock out tag out for tamper proof lock arrangement. Used for common by pass in 1oo2, 2oo2 & 2oo3 and individual isolation in 2oo2 & 2oo3

Special Mounting for 141 Series X	X	551	506166	001	00	Voltage Code⁽¹⁾ ⁽¹⁾ Push pull manual operation and voltage not applicable
Valve Series 551						Material & Temperature Options⁽²⁾ ⁽²⁾ Refer ASCO representative for applicable options and code (3 digit)
Drawing Code						
506166	Std Flow, Isolation Valve					
528799	Std Flow, Bypass Valve					
543545	High Flow, Isolation Valve					
543561	High Flow, Bypass Valve					


Accessories**Accessories - Spares Code**

Ordering Code	Item Description	Temperature Range
C325937	Pressure gauge (full stainless steel)	-40°C to +90°C
508133-005	Visual indicator (full stainless steel)	-23°C to +95°C
509123-003	Pressure switch (weatherproof & intrinsically safe wiring)	-20°C to +80°C
509123-004	Pressure switch (explosion proof wiring: flying leads)	-40°C to +90°C

ARCS - Customised Solutions

ASCO is also able to offer customized solutions to meet specific redundancy requirements, complete with options to integrate valve automation accessories like filter regulators, pilot operated valves, junction boxes for switches (feedback wiring), visual indicators, gauges and more. Available in open frame or explosion proof enclosures (Exia, Exe and Exd protection).