

Features

- Process valve body is serviceable without removing indicator box
- Built-in understroke compensation
- Simple to install and adjust
- Designed for caustic washdown
- One construction accommodates valve strokes up to 2 inches
- Indicator visible from 360°

Construction

	HS 2	HS 3	HS 4
Area Classifications	Type 4, 4X Indoor Hazardous Location*	IP66 Outdoor Hazardous Location*	Type 4, 4X IP66 Indoor/Outdoor Non-Hazardous Location
Switch Type	Mechanical / Reed		
Body	Valox 364 (Resilient PBT)		
Indicator Cover	Polycarbonate (Makrolon Grade 2607™) UV Stabilized		
Switch Trigger	ABS		
Inner Frame	Zytel Nylon		

① Mechanical SPDT gold plated switch is also available for intrinsically safe (IS) applications. * See Specifications Chart.

Makrolon 2607 is a registered trademark of Bayer Inc.

Ambient Temperatures

Reed Switches: -4°F to 150°F (-20°C to 65°C)

ASi, DeviceNet Bus Card: -4°F to 140°F (-20°C to 60°C)

Profibus PA: 32°F to 140°F (0°C to 60°C)

(Contact ASCO for extended temperature range applications.)

Electrical

Mechanical Switches

Gold Contacts

Maximum 100mA@125/250VAC

Minimum 4mA@5VDC

Silver Contacts

Maximum 15A@125/250VAC

Minimum 125mA@125/250VAC

Reed Switches

Tungsten: 120VAC@3A or 24VDC@2A

Maximum power allowable is 100 Watts or 100VA

Minimum power required to ensure proper operation is 3W or 3VA

Rhodium: 24VDC@1A

Maximum power allowable is 25 Watts

Minimum current required to ensure proper operation is 10mA@3VDC

Rhodium (IS): 2mA to 1A@24VDC (suitable for IS applications)

“IS”- Class I,II,III, Div. 1,

Groups A,B,C,D,E,F, and G

Class I, Zone 0, AEx ia IIC T6

Class I, Zone 1, AEx ib IIC T6



ATEX category 1G, 2G Intrinsic Safety Only

II 1G EEx i a IIC T6

KEMA 04 ATEX 1025X

Ambient Temperature: -18 to 170°F (-28 to 77°C)

NOTE: ASCO requires 12VDC valves for DeviceNet Network Cards and 24VDC for AS-interface Network Cards.

Approvals

FM approved for: “Hazardous (Classified) locations”;

Class 3600, 3610 & 3611 (HS 2 & 3).

Unclassified Locations (HS 4).

CSA Certified to Standard C22.2 No. 142-M

“Process Control Equipment”; Hazardous Locations,

Class 2258-02, 04, 82 & 84 (HS 2 & 3), and General

Requirements, Class 2252-01 (HS 4), File 013976-0-000.

CE Certified.

Optional Features

• Attached low power pilot valve or with integrated valve.

• AS-interface, Profibus-PA, DeviceNet communication cards with 2 switches to indicate stem position.

• Up to 2 conduit entries select from: 1/2” or 20mm.

• Plug, cable gland, and network connectors.

See list price schedule for available mounting brackets and adapters.

Specifications

Series	Hazardous Classified Location	Shaft	Conduit / Connector ①	Indicator	Change Letter	Switches	# of Switches	Network/Bus	Connector				
HS2 Series Type 4,4X Indoor	Intrinsically Safe: Class1,2,3/Div.1/A,B,C,D/T6 Class1/Zone 0/AEx ia IIC/T6 Class1/Zone 1/AEx ib IIC/T6 Ambient Temp. = 77°C/170°F Class2/Div.1/A,B,C,D,E,F,G	D=10-24 Thread*	1=(2) 1/2 FNPT 9=(1) 1/2 FNPT + (1) M20 x 1.5	Y=Yel/Black	C	N=None	0=None	NG=None	A=Threaded Conduit				
	H=Mech SPDT Gold (IS) G=Reed SPDT Rhodium (IS) T=Reed SPDT Tungsten 3A R=Reed SPDT Rhodium 1A					0=None U=One Open Upper L=One Closed Lower 2=Two							
	W=Network Card					0=None U=One Open Upper L=One Closed Lower 2=Two							
						2=Two	DC=DNET2x1 DE=DNET 2x1 Diagnostics PA=Profibus-PA, Non IS	C=Mini (7/8) Pin Connector for Bus Networks					
HS2						D	1	Y	C	T	2	NG	A
HS3 Series IP-66 Outdoor	Intrinsically Safe: Class1,2,3/Div.1/A,B,C,D/T6 Class1/Zone 0/AEx ia IIC/T6 Class1/Zone 1/AEx ib IIC/T6 Ambient Temp. = 77°C/170°F Class2/Div.1/A,B,C,D,E,F,G	D=10-24 Thread*	1=(2) 1/2 FNPT 9=(1) 1/2 FNPT + (1) M20 x 1.5	Y=Yel/Black	C	N=None	0=None	NG=None	A=Threaded Conduit				
	H=Mech SPDT Gold (IS) G=Reed SPDT Rhodium (IS) T=Reed SPDT Tungsten 3A R=Reed SPDT Rhodium 1A					0=None U=One Open Upper L=One Closed Lower 2=Two							
	W=Network Card					0=None U=One Open Upper L=One Closed Lower 2=Two							
						2=Two	DC=DNET2x1 DE=DNET 2x1 Diagnostics PA=Profibus-PA, Non IS	C=Mini (7/8) Pin Connector for Bus Networks					
HS3						D	1	Y	C	T	2	NG	A
HS4 Series Type 4,4X Indoor IP-66 Indoor/ Outdoor	Non-Hazardous	D=10-24 Thread*	1=(2) 1/2 FNPT 9=(1) 1/2 FNPT + (1) M20 x 1.5	Y=Yel/Black	C	N=None	0=None	NG=None	A=Threaded Conduit B=M12 Pin Connector for Bus Networks C=Mini (7/8) Pin Connector for Bus Networks				
						A=Mech SPDT Silver 15A H=Mech SPDT Gold (IS)	U=One Upper (open) L=One Lower (closed) 2=Two						
HS4						D	1	Y	C	A	2	NG	A

① M20 x 1.5 with PIN Connector required for Bus. * For correct operation, ASCO mousing bracket must be used. See ASCO VMS list price schedule for mounting kits.

Ordering Example: HS2D1BYCT2NGA

Dimensions: Inches (mm)

