

# Smart High-Performance Positioner Model Selection

SHP -

E - EXECUTION <sup>(1)</sup>	
<b>S</b>	CE Marking, Ordinary Location
<b>Z</b>	UL Certification, Ordinary Location
...	Hazardous Certified, see related table

H - COMMUNICATION	
<b>H</b>	4-20 mA & HART 7

D - EXHAUST PORT	
<b>0</b>	Standard
<b>1</b>	Collected
<b>2</b>	Closed loop <sup>(2)</sup>
<b>3</b>	Checked Exhaust Model 1 (special) <sup>(3)</sup>
<b>4</b>	Checked Exhaust Model 2 (special) <sup>(3)</sup>

F - POSITION SENSOR	
<b>0</b>	Contactless Integrated <sup>(4)</sup>
<b>1</b>	Potentiometer Integrated (special)
<b>2</b>	Not Integrated Position Sensor <sup>(5)</sup> (special)

A - SIGNAL FAIL POSITION	
<b>A</b>	Fail Safe
<b>F</b>	Two Wires Fail Freeze / Zero Bleed in Steady State <sup>(6)</sup>

L - LOCAL INTERFACE	
<b>S</b>	Blind cover, without display and push button
<b>D</b>	Display and push button

I - TYPE & CONNECTIONS				
Type			Connections	
			Electrical	Pneumatic
<b>S</b>	High flow double/single acting	CV 2,3	½" NPT	½" NPT
<b>R</b>	Standard flow double/single acting (special)	CV 0,3	½" NPT	¼" NPT

M - MATERIAL	
<b>A</b>	Aluminum low copper housing
<b>S</b>	Stainless steel 316 housing

T - TEMPERATURE RANGE	
<b>U</b>	-55°C / +85°C
<b>L</b>	-40°C / +85°C

OPTIONS	
<b>+2M</b>	Quantity 2 SS316 pressure gauges on actuator side ports (A,B)
<b>+3M</b>	Quantity 2 SS316 pressure gauges on actuator side ports (A, B) + Quantity 1 SS316 pressure gauge on supply port (IN)
<b>+RS</b>	Remoted position sensor application
<b>+LB</b>	Low bleed application <sup>(7)</sup>
<b>+M20</b>	Quantity 1 <sup>(8)</sup> or quantity 3 <sup>(9)</sup> adapters for electrical connection M20x1.5
<b>+Pack1</b>	Standard Pack <sup>(10)</sup> , Step Test, Valve Signature Test, Dynamic Error Band Test, Pressure Fallback
<b>+Pack2</b>	Pack1, Stability Control, Soft Approach To Seat (Soft Cut Off), Frequency Test
<b>+Pack3</b>	Pack2, Online Logger
<b>+CBL</b>	SHP Remote Control Software connection cable (High Speed Transfer Data USB cable)
<b>+4WF</b>	Four Wires Fail Freeze <sup>(12)</sup>
<b>+CP</b>	Custom Painting <sup>(13)</sup>

E - EXECUTION (HAZARDOUS CERTIFICATIONS) <sup>(1)</sup>		
<b>I</b>	ATEX / IECEx	Intrinsically Safe
<b>D</b>	ATEX / IECEx	Flame Proof
<b>F</b>	UL	Intrinsically Safe
<b>G</b>	UL	Explosion Proof
<b>C</b>	CCC	Intrinsically Safe
<b>L</b>	CCC	Flame Proof
<b>T</b>	CU TR	Intrinsically Safe
<b>R</b>	CU TR	Flame Proof
<b>E</b>	ECASEx	Intrinsically Safe
<b>X</b>	ECASEx	Flame Proof
<b>N</b>	INMETRO	Intrinsically Safe
<b>M</b>	INMETRO	Flame Proof
<b>K</b>	KOSHA	Intrinsically Safe
<b>H</b>	KOSHA	Flame Proof
<b>P</b>	PESO	Intrinsically Safe
<b>O</b>	PESO	Flame Proof
<b>A</b>	SANS	Intrinsically Safe
<b>B</b>	SANS	Flame Proof
<b>U</b>	UKCA <sup>(11)</sup>	Intrinsically Safe
<b>V</b>	UKCA <sup>(11)</sup>	Flame Proof

<sup>(1)</sup> All the configurations are IP 66. All the configurations are SIL3 capable (except "Two Wires Fail Freeze"). Grey marked "certifications" will be available soon.

<sup>(2)</sup> Available only for single acting actuators.

<sup>(3)</sup> Only for configurations SHP-S, SHP-I and SHP-D.

<sup>(4)</sup> Additional magnet holder (+MG) is required, depending on application. For further informations, please see IOM.

<sup>(5)</sup> Option +RS mandatory for this configuration. For further informations, please see IOM.

<sup>(6)</sup> Additional accessories are required. For "Explosion Proof" or "Flame Proof" models select option +4WF. Temperature range is limited by the piezo valve (-25°C to 60°C).

For further informations, please see IOM.

<sup>(7)</sup> Available only with "Reduced flow" design.

<sup>(8)</sup> Only for "Explosion Proof" or "Flame Proof" models.

<sup>(9)</sup> Only for "Intrinsically Safe" models.

<sup>(10)</sup> Software (RC) with: Self-tuning, Pilot Test, System Status, Parameter Monitoring, Graph Comparison, Parameter Measurement, Events, Counters, Partial Stroke Test.

<sup>(11)</sup> ATEX marking is recognized by UK as valid certification. UKCA marking is not anymore mandatory. Select configurations SHP-S, SHP-I or SHP-D for UK market.

<sup>(12)</sup> Available only for "Fail Safe" positioners. Additional accessories and wiring are necessary. For further information, please see IOM.

<sup>(13)</sup> Available only for Stainless Steel 316 housing. Additional feasibility studies must be conducted.