



SAMSON

SAMSON

Modular Design for High-end Applications

TROVIS 3793 and TROVIS SAFE 3793 Positioners

- High air capacity → no additional accessories required
- Modular design → pneumatic and option modules can be replaced as required
- Non-contact, protected travel sensing
- Plain-text display with NAMUR Recommendation NE 107 statuses and messages on the device
- Single and double acting

TROVIS 3793

- For use on control valves
- Throttling service
- Quick and precise control, even with large actuators

TROVIS SAFE 3793

- For use on on/off valves in safety-instrumented systems
- On/off service (discrete set point analysis)
- Partial and full stroke testing (PST, FST) functions to increase plant availability



	TROVIS 3793	TROVIS SAFE 3793
Attachment	Linear actuators: SAMSON integral attachment, IEC 60534-6-1, VDI/VDE 3847 Rotary actuators: VDI/VDE 3845	
Travel	Adjustable from 3.6 to 300 mm	
Opening angle	Adjustable between 24 and 170°	
Set point	4 to 20 mA	
Supply air	2.5 to 10 bar/30 to 150 psi	
Signal pressure (output)	0 bar up to supply pressure	
Communication	HART® communication or SSP (SAMSON protocol)	
Characteristics	3 for globe valves, 2 for rotary valves, user-defined	
Explosion protection	Intrinsic safety, non-sparking equipment	
Electrical connections	1 M20x1.5 cable gland for 6 to 12 mm clamping range, 3 M20x1.5 threaded connections additionally exist	
Pneumatic connections	G ¼ or NPT ¼	
Degree of protection	IP 66/NEMA 4X	
Materials	Die-cast aluminum, chromate coating and powder paint coated Stainless steel on request	
Options	Binary contacts (NAMUR or PLC), inductive limit contacts, mechanical limit contacts, forced venting function, binary input, analog position transmitter	

The TROVIS SAFE version is suitable for use in safety-instrumented systems according to IEC 61511 up to SIL 2 (single device/HFT = 0) and SIL 3 (redundant configuration/HFT = 1)