





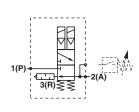
# SCVA10, 3/2 Solenoid actuated safety valves

- Port size: 1/2 (ISO G/NPT)
- Redundant valve assembly, pneumatic selfmonitoring with integrated safety silencer
- > Ensures safe loading and venting
- Requires no cyclical monitoring or evaluation system

#### Technical features Medium:

Compressed air, filtered ≤ 50 µm, lubricated or non-lubricated **Operating pressure:** See table below **B10 characteristic service live** value on basis ISO 19973: 8 x 10° cycles

# > With the appropriate application, performance level "e" (cat. 4) of DIN EN ISO 13849-1 is achieved for the safety function "Pressure building up from '1' to '2' and pressure dropping from '2' to '3' "- DGUV approval





#### Mounting:

Preferably upright with solenoids on top **Press control:** Valves are not approved for press clutch and brake applications

#### Ambient/Media temperature:

-10 ... +60°C (+14 ... +140°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

#### Materials:

Housing: Aluminium Seals: PUR or NBR

## **Technical data**

Symbol	Port size	Orifice	Power at 24 V d.c.	Pressure range	Flow		Port sizes			Weight	Model
					1 » 2	2 » 3	1	2	3		
		(mm)	(W)	(bar)	(l/min)	(l/min)				(kg)	
,	G1/2	10	4,8	2 10	3400	6500	G1/2	G1/2	G3/4	2,4	SCVA101DE1A02400
PP	1/2 N PT	10	4,8	2 10	3400	6500	1/2 N PT	1/2 NPT	3/4 N P T	2,4	SCVA101TU1A02400
1(P) 2(A)											
3(R)≷≷											

# Technical data – solenoids

Standard voltages	24 V d.c.
Duty cycle	100% ED
Protection class	IP65

Other voltages on request!

## **Circuit diagram**





## Accessories



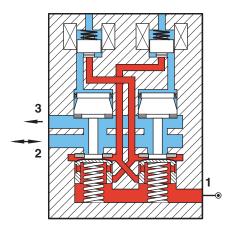
\*1) Quikmount pipe adaptor please order separately

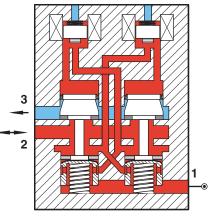
\*2) The pressure switch is not required as part of the safe functioning system within the valve, its is offered as a means of indicating that the valve taken up a safe condition ie. no pressure at the output port 2

## **Functional diagram**

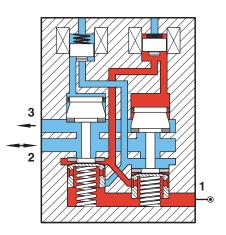
**Basic position** Channel "2" onto "3" Safety silencer relieved

Working position Both solenoids energized Channel "1" onto "2" turned on





Safety position For unbalanced control, faulty solenoid, dirty valve, etc.

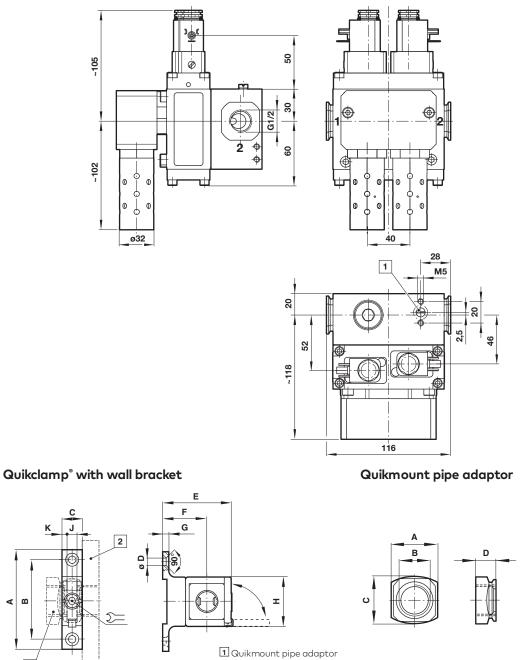


# Time to vent residual pressure to 0,5 bar

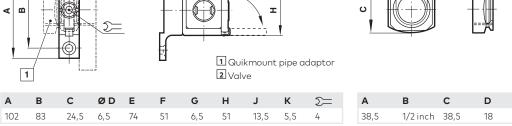
Model	Volume	Operating pressure	Exhaust time		
	(dm³)	(bar)	(ms)		
SCVA101		5	200		
	3	8	250		
		10	280		
		5	450		
	8	8	580		
		10	640		

#### Dimensions





1 Interface for pressure switch

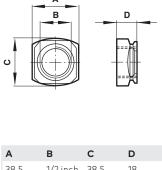


Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/** data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.



The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.