

- > Port size: 1/2 (ISO G/NPT)
- > Redundant valve assembly, pneumatic selfmonitoring with integrated safety silencer
- Requires no cyclical monitoring or evaluation system
- > 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
- Integrated soft start function
- Valve interface enables direct mount to the
- Excelon plus 84 series air preparation products
- > Also available with UL recognized solenoid Thus



1

Technical features

Medium:

Compressed air, filtered \leq 50 μ m, lubricated or non-lubricated

Operating pressure:

see table below

B10 (median)characteristic service live value on basis ISO

19973: 10 x 10⁶ cycles

Mounting position:

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, NBR

Technical data

Symbol	Thread form	Orifice	Power at 24 V d.c.	Pressure range	Flow		Port size	s		Weight	Model
					1 » 2	2 » 3	1	2	3		
		(mm)	(W)	(bar)	(I/min)	(I/min)				(kg)	
;	ISO G	10	4,5	3,5 10	3000	5700	G1/2	G1/2	G3/4	2,7	SCSQ101D01D02400
<u> </u>	ISO G	10	4,5	3,5 10	3000	5700	G1/2	G1/2	G3/4	2,7	SCSQ101D01E02400 *1)
	NPT	10	4,5	3,5 10	3000	5700	1/2 NPT	1/2 NPT	G3/4	2,7	SCSQ101T01D02400
	NPT	10	4,5	3,5 10	3000	5700	1/2 NPT	1/2 NPT	G3/4	2,7	SCSQ101T01E02400 *1)
3 (22)											
·											

^{*1)} with UL recognized solenoid (24VDC, other voltages on request)

Technical data - solenoids

Model	3030 & 3048 (UL)
Standard voltages	24 V DC, others on request
Duty cycle	100% ED
Protection class	IP65
Electrical connection	DIN EN 175301-803 (DIN 43650), Form A

Model	Power consumption V DC (W)	Connector
3030	4,4	Form A
3048	3,7	Form A

Circuit diagram





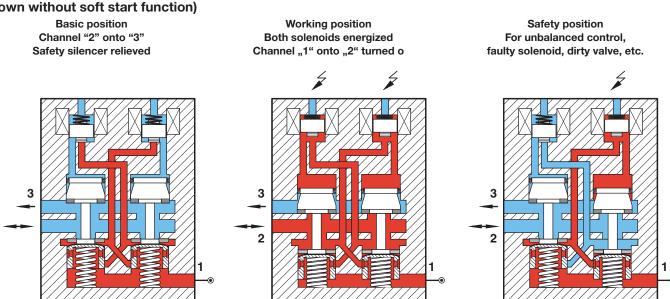


Accessories



^{*1)} Quikmount pipe adaptor please order separately.

Functional diagram (shown without soft start function)



Soft start function

The safety valve with soft start function provides for a controlled build-up of pressure at the valve output in two stages.

Stage 1 – The pressure builds up slowly depending on the setting of the throttle valve and the volume of the system to be filled.

Stage 2 – At a certain pressure level (ps) an internal pilot valve operates bypassing the throttle allowing full operating pressure at the valve outlet.

This pressure level (ps) will be dependant on the operating pressure (po) of the system and can be estimated to be greater than 60 % of the operating pressure (ps > = 0.6 x po)

Filling time depending on throttle position of soft start valve

From switching signal ON to pressure build-up 90% of rated pressure

		Filling time approx. (ms)				
Operating pressure	Volume		Numbers of needle turn	Numbers of needle turn		
(bar)	(dm³)	4	6	12 *1)		
Ē	3	3200	2600	1700		
5	8	8300	7000	4300		
	3	3000	2400	1500		
6	8	7800	6500	3900		
	3	2700	2200	1400		
8	8	7300	5700	3700		

^{1*)} at fully opened valve

^{*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



Exhausting time

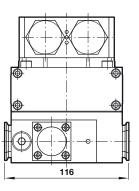
From switching signal OFF to pressure reduction to 10% of rated pressure

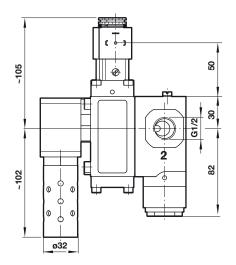
Operating pressure	Volume	Exhaust time
Operating pressure (bar)	(dm³)	(ms)
-	3	190
5	8	440
2	3	200
6	8	460
2	3	210
8	8	480

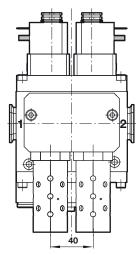
Dimensions

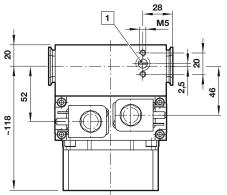
Dimensions in mm Projection/First angle







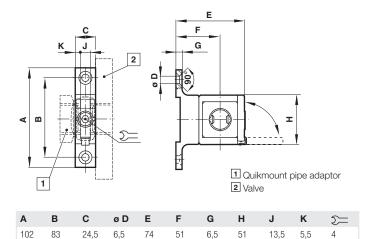




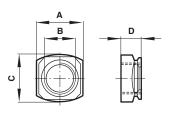
1 Interface for pressure switch



Quikclamp® with wall bracket

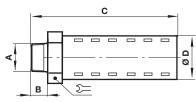


Quikmount pipe adaptor



Α	В	С	D	
38,5	1/2 inch	38,5	18	

Heavy duty silencer



Α	В	С	D	5=	Model
R3/4	17	92	32	32	MBP06

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

IMI Precision Engineering, Norgren GmbH.

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.