

Unidade de preenchimento, acionamento pneumático, Série AS2-SSU

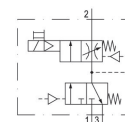
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Série AS2

2024-03-26

Série AS2

A série AS2 da AVENTICS é uma unidade de manutenção modular e versátil para aplicação universal. Esta série tem dimensões compactas e alta eficiência, além de ser leve e fácil de usar. A série AS da AVENTICS garante confiabilidade, segurança e eficiência com montagem e manutenção simplificadas.



Dados técnicos

Setor

Indústria

Modelo

Com circuito prioritário elétrico, tempo de preenchimento regulável.

acionamento

pneumático

Componentes

Válvula direcional 3/2

Válvula de preenchimento

Fluxo nominal Qn

2000 l/min

Conexão de ar comprimido

G 1/4

Pressão de operação mín.

0 bar

Pressão de operação máx.

16 bar

Tipo de conexão

conexão de tubo

Princípio de estanquidade

com vedação mole

Modelo

válvula de assento

Comando piloto

interno

bloqueável

bloqueável

Pressão de comando mín.

2.5 bar

Pressão de comando máx.

16 bar

Temperatura ambiente mín.

-10 °C

Temperatura ambiente máx.

50 °C

Fluido

Ar comprimido

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Gases neutros

Tamanho máx. da partícula	25 µm
Conexão de ar comprimido pilotaje exaustão de ar	G 1/8
Saída de ar da conexão de ar comprimido	G 1/4
Fluxo nominal Qn 1 para 2	2000 l/min
Fluxo nominal Qn 2 para 3	380 l/min
Peso	0.424 kg

Material

Material de caixa	Poliamida
Material de vedações	Borracha de acrilonitrila butadieno
Material da tampa frontal	Plástico acrilonitrila-butadieno-estírol
Material bucha rosqueada	Zinco moldado a pressão
Nº de material	R412006382

Informações técnicas

O ponto de condensação de pressão deve ser pelo menos 15 °C abaixo da temperatura ambiente e do fluido e um máximo de 3 °C .

Fluxo nominal Qn com pressão secundária p2 = 6 bar e $\Delta p = 1$ bar

A válvula de preenchimento gera lentamente a pressão nas instalações pneumáticas, assim se evitando estabelecimento repentino da pressão na recolocação em funcionamento após queda de pressão da rede ou/e parada de emergência. Isto evita perigosos movimentos bruscos dos cilindros.

Com a ativação do circuito elétrico prioritário, a formação lenta de pressão é interrompida e a pressão p1 é ligada imediatamente.

Para uma operação não restringida, a válvula de preenchimento deve ser permanentemente controlada eletricamente.

A alteração da direção do fluxo de passagem (da alimentação de ar à esquerda para a alimentação de ar à direita) é feita por uma montagem girada 180° no eixo vertical. Mais informações podem ser obtidas no manual de operação.

Conexão elétrica: conector de encaixe de válvula M12x1

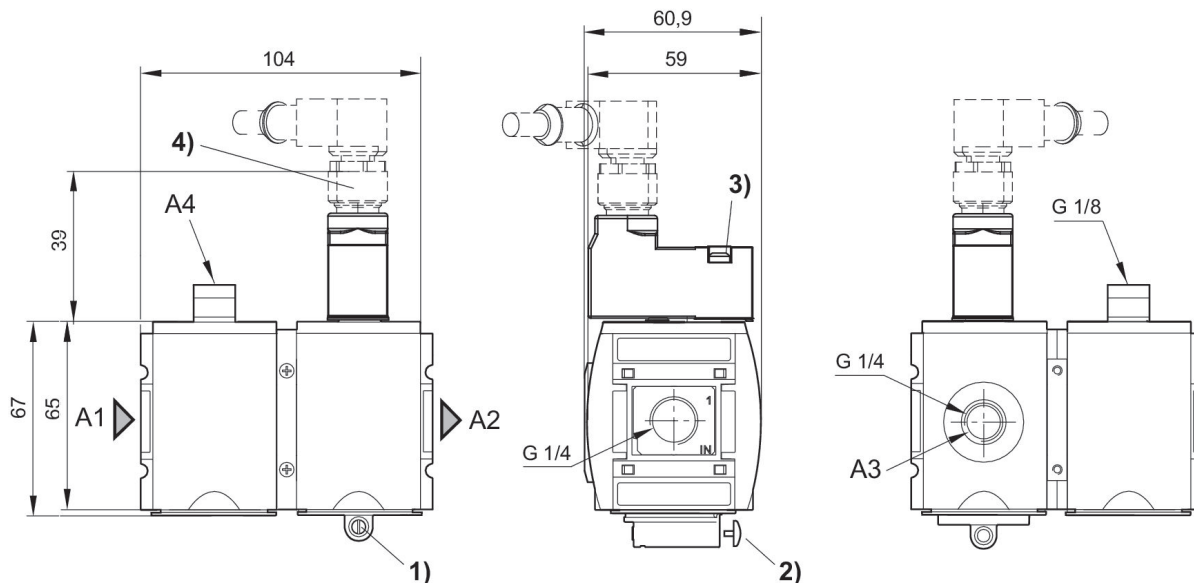
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Dimensões em mm



A1 = entrada

A2 = saída

A3 = conexão para exaustão de ar

A4 = Conexão à pressão de comando

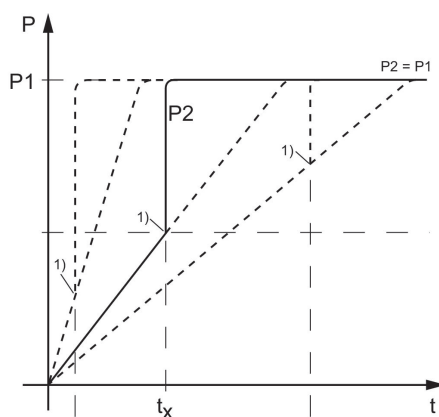
1) Parafuso de ajuste para tempo de preenchimento

2) Proteção anti-rotação para o parafuso de ajuste

3) conector M12

4) Acionamento manual auxiliar

Decorrer da pressão secundária durante enchimento



p1 = Pressão de operação

p2 = Pressão secundária

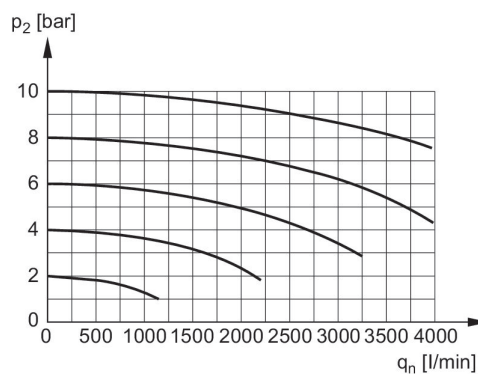
t = tempo de preenchimento

t_x = Tempo de comutação

1) Ponto de comutação acionado eletricamente

Tempo de preenchimento através do parafuso de ajuste (estrangulador) regulável

Característica de fluxo

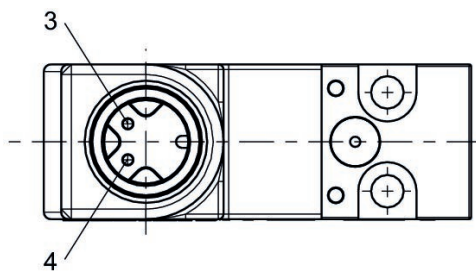


p_2 = Pressão secundária

q_n = Fluxo nominal

R412006382
ocupação de pinos M12x1

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4: +/-

This exploded view diagram illustrates the assembly of the 3000 Series 1/2" valve. The diagram shows the main valve body (BAV) with two solenoid coils (FLS and FLC) and a manual override (FLM). Various components are shown in their relative positions, including the solenoid coils (PE1, PE2, PE3, PE4, PE5), solenoid coils (PM1, PM2, PM3, PM4, PM5), solenoid coils (RV1, RV2, RV3, RV4, RV5), solenoid coils (QR1, QR2), solenoid coils (QR3, QR4, QR5, QR6, QR7, QR8, QR9, QR10, QR11, QR12, QR13, QR14, QR15, QR16, QR17, QR18, QR19, QR20, QR21, QR22, QR23, QR24, QR25, QR26, QR27, QR28, QR29, QR30, QR31, QR32, QR33, QR34, QR35, QR36, QR37, QR38, QR39, QR40, QR41, QR42, QR43, QR44, QR45, QR46, QR47, QR48, QR49, QR50, QR51, QR52, QR53, QR54, QR55, QR56, QR57, QR58, QR59, QR60, QR61, QR62, QR63, QR64, QR65, QR66, QR67, QR68, QR69, QR70, QR71, QR72, QR73, QR74, QR75, QR76, QR77, QR78, QR79, QR80, QR81, QR82, QR83, QR84, QR85, QR86, QR87, QR88, QR89, QR90, QR91, QR92, QR93, QR94, QR95, QR96, QR97, QR98, QR99, QR100, QR101, QR102, QR103, QR104, QR105, QR106, QR107, QR108, QR109, QR110, QR111, QR112, QR113, QR114, QR115, QR116, QR117, QR118, QR119, QR120, QR121, QR122, QR123, QR124, QR125, 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