SVD0.S08 Valve Series

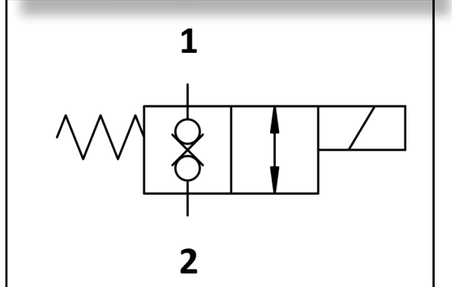
Hybrid SAE Cartridge - 250 bar
NC Double Lock Direct Acting - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally closed, direct acting poppet type, bi-directional blocking, screw-in cartridge valve.
Special design for low leakage in load holding applications.
When the coil is de-energized, the SVD0.S08 blocks flow in both directions. Once the coil is energized, the valve's poppet opens and allows free flow from 1 to 2 and from 2 to 1.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.
Override option: to manually override, push and hold the override pin/knob.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

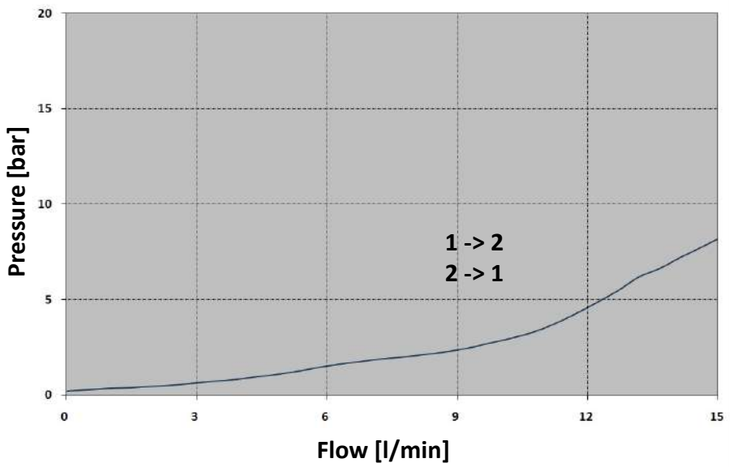
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

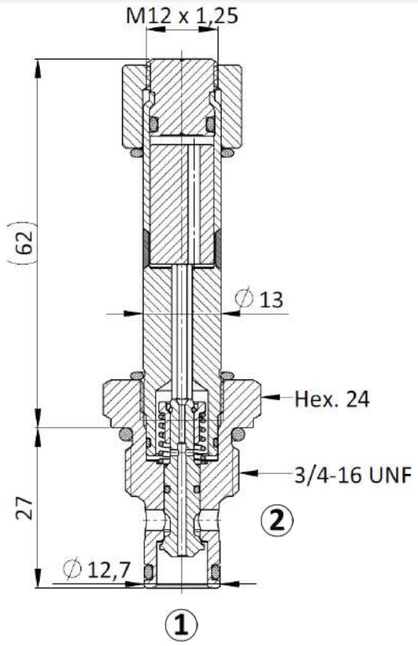
Note: For information about operating limits, please contact the factory.



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 15 l/min
Internal leakage: max 5 drops/min @ 250 bar
Response time: Energized 20 ms,
De-energized 40 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.003 and SK.027 (coil)
Weight: 0.120 kg

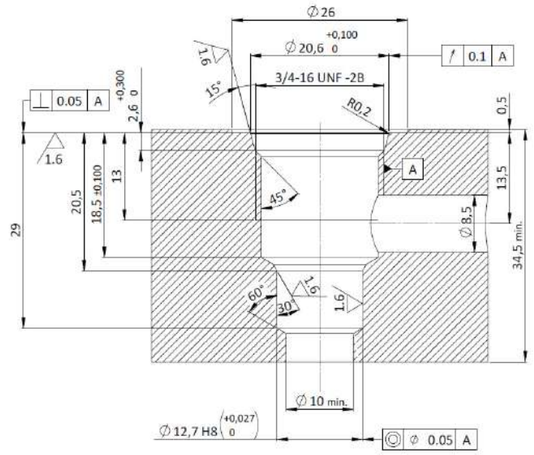
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



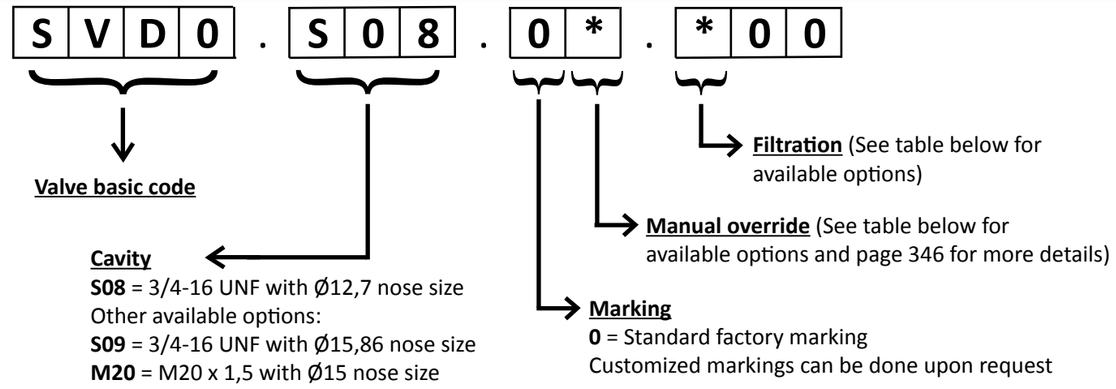
Cavity Details

SAE08



See page 348

Ordering Code



Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

SVD0.S10 Valve Series

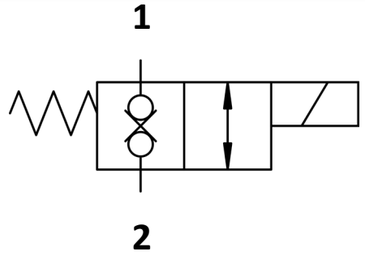
Hybrid SAE Cartridge - 250 bar
NC Double Lock Direct Acting - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally closed, direct acting poppet type, bi-directional blocking, screw-in cartridge valve.
Special design for low leakage in load holding applications.
When the coil is de-energized, the SVD0.S10 blocks flow in both directions. Once the coil is energized, the valve's poppet opens and allows free flow from 1 to 2 and from 2 to 1.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.
Override option: to manually override, push and hold the override pin/knob.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

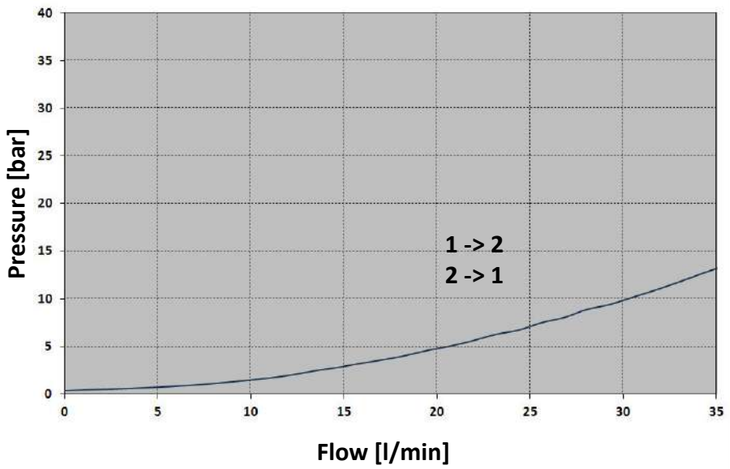
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

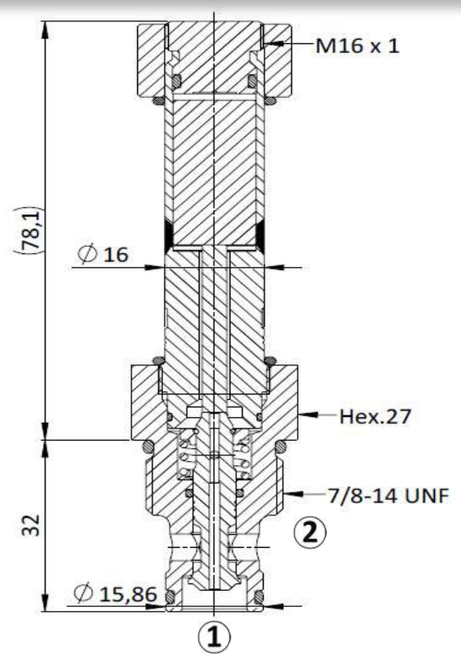
Note: For information about operating limits, please contact the factory.



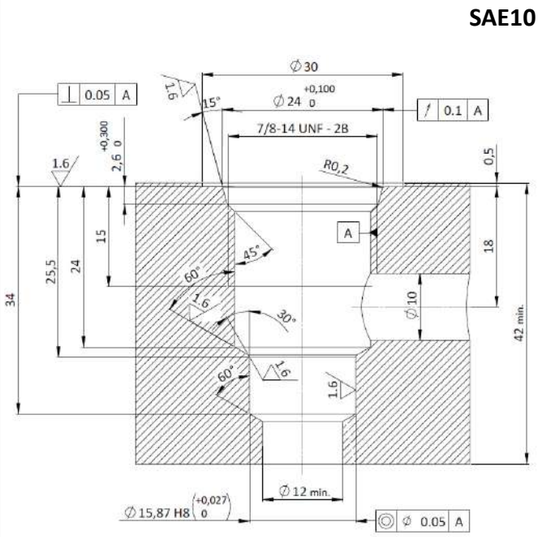
Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 35 l/min
Internal leakage: max 5 drops/min @ 250 bar
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 45-50 Nm
Seal kit code: SK.088 and SK.087 (coil)
Weight: 0.225 kg

NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details



See page 350

Ordering Code

S V D 0 . S 1 0 . 0 * . 0 0 0

Valve basic code

Cavity
S10 = 7/8-14 UNF with Ø15,86 nose size

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Coil

Use **26W** coil to operate this valve.
For more details see page 340.

SVD5.S08 Valve Series

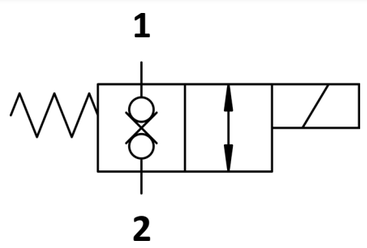
SAE Cartridge - 250 bar
NC Double Lock Direct Acting - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally closed, direct acting poppet type, bi-directional blocking, screw-in cartridge valve.
Special design for low leakage in load holding applications.
When the coil is de-energized, the SVD5.S08 blocks flow in both directions. Once the coil is energized, the valve's poppet opens and allows free flow from 1 to 2 and from 2 to 1.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.
Override option: to manually override, push and hold the override pin/knob.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

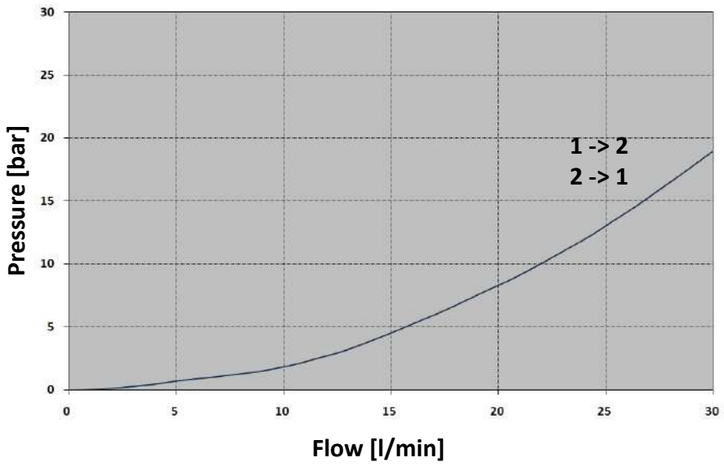
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

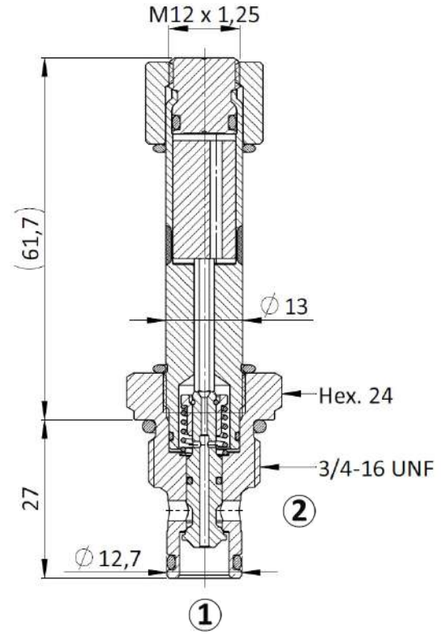
Note: For information about operating limits, please contact the factory.



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 30 l/min
Internal leakage: max 5 drops/min @ 250 bar
Response time: Energized 20 ms,
De-energized 40 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.003 and SK.027 (coil)
Weight: 0.120 kg

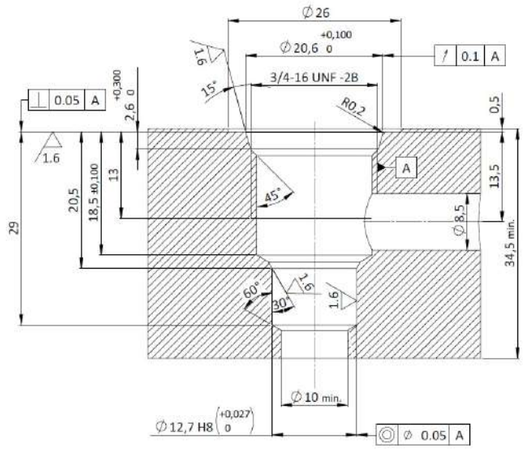
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S	V	D	5	.	S	0	8	.	0	*	.	*	0	0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 346 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **22W** coil to operate this valve.
For more details see page 336.

SVE0.S08 Valve Series

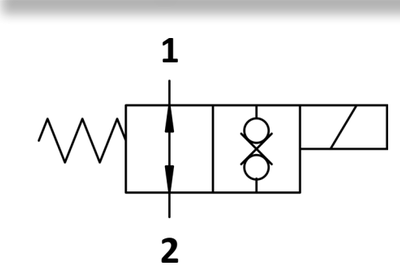
SAE Cartridge - 250 bar
NO Double Lock Direct Acting - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, direct acting poppet type, bi-directional blocking, screw-in cartridge valve.
Special design for low leakage in load holding applications.
When the coil is de-energized, the SVE0.S08 allows flow in both directions. Once the coil is energized, the valve closes blocking flow from 1 to 2 and from 2 to 1.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

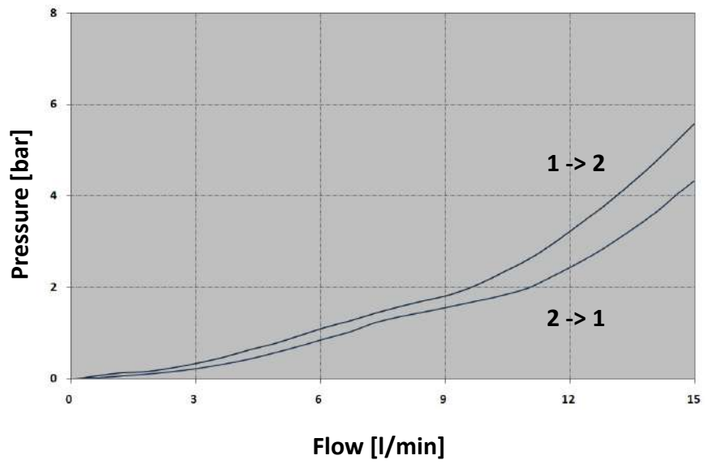
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

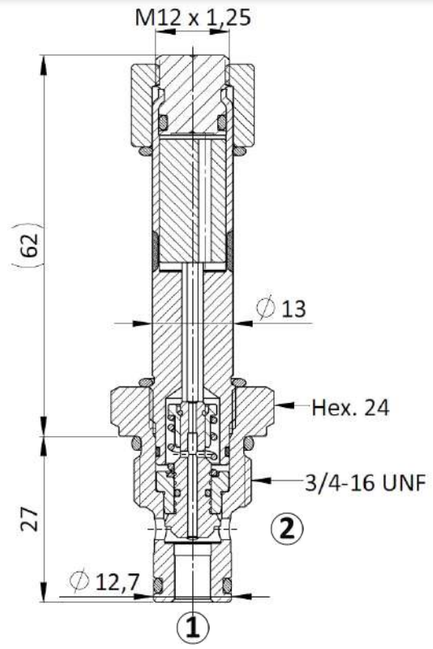
Note: For information about operating limits, please contact the factory.



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 15 l/min
Internal leakage: max 5 drops/min @ 250 bar
Response time: Energized 35 ms,
De-energized 80 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.003 and SK.027 (coil)
Weight: 0.125 kg

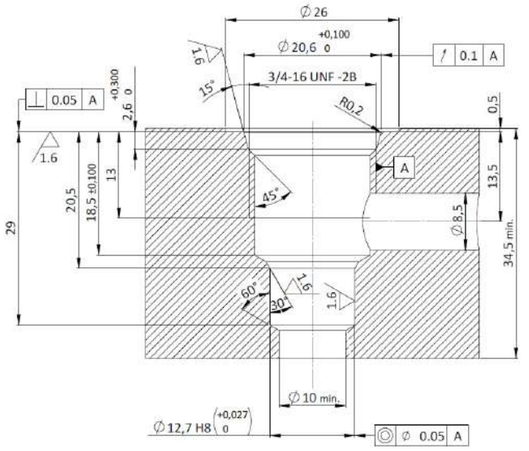
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



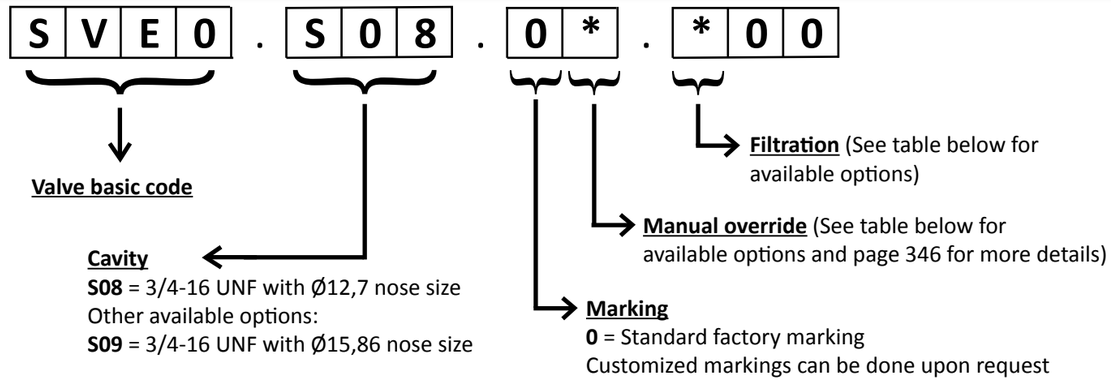
Cavity Details

SAE08



See page 348

Ordering Code



Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 μm)
Customized filters can be done upon request	

Coil

Use **22W** coil to operate this valve.
For more details see page 336.

SVF0.S08 Valve Series

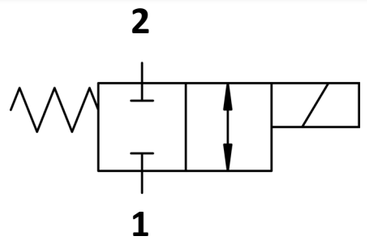
SAE Cartridge - 250 bar
Directional Valve - 2/2 Spool type

Description
A Solenoid operated, 2 way 2 positions, spool type, direct acting, screw-in hydraulic directional cartridge valve.
In the de-energized mode, the SVF0.S08 blocks flow bydirectionally.
In the energized mode, bidirectional flow is allowed between ports 1 and 2.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel.
Spool is hardened and micron finished to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

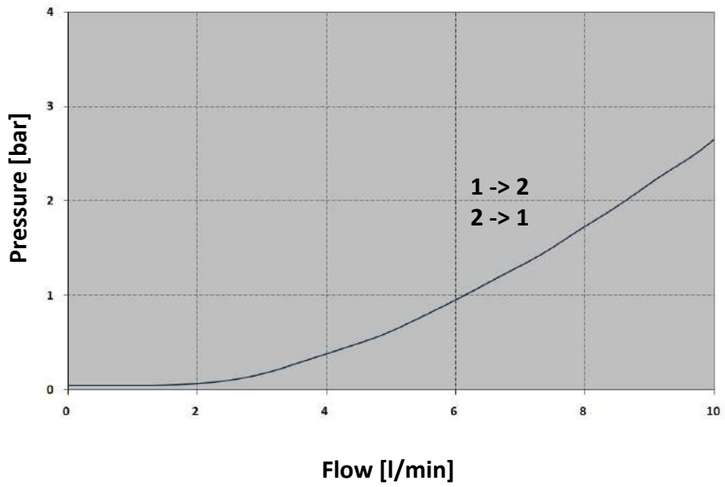
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

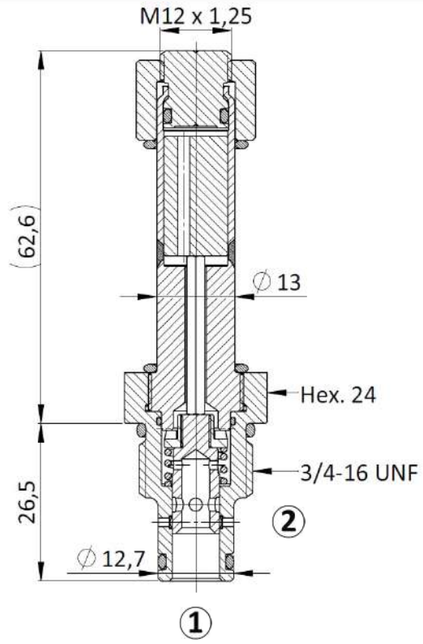
Note: For information about operating limits, please contact the factory.



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 10 l/min
Internal leakage: max 80 cm^3/min @ 250 bar
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 35-40 Nm
Seal kit code: SK.003 and SK.027 (coil)
Weight: 0.125 kg

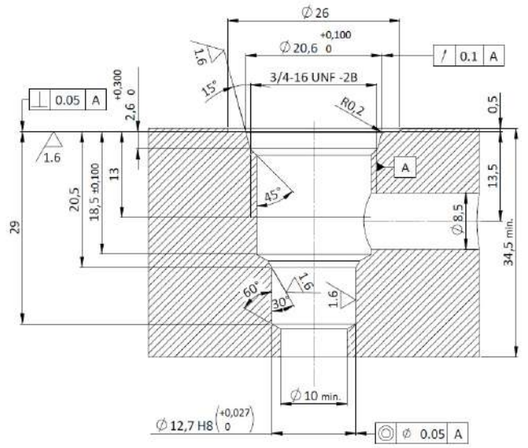
NOTE: The performance chart illustrates flow handling capacity 1 to 2 and 1 to 2 (both energized).
P/Q curves are recorded at TOil= 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S V F 0 . S 0 8 . 0 * . 1 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size

Flow path
1 and 2 both blocked (de-energized)
1 and 2 connected (energized)

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

SVF0.S08 Valve Series

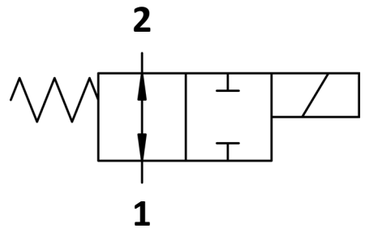
SAE Cartridge - 250 bar
Directional Valve - 2/2 Spool type

Description
A Solenoid operated, 2 way 2 positions, spool type, direct acting, screw-in hydraulic directional cartridge valve.
In the de-energized mode, bidirectional flow is allowed between ports 1 and 2.
In the energized mode, the SVF0.S08 blocks flow bydirectionally.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel.
Spool is hardened and micron finished to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

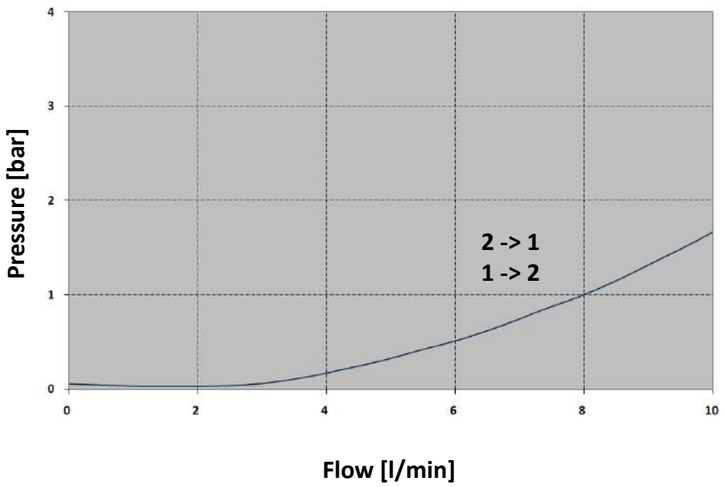
Note: Standard sealing NBR (BUNA-N)

Symbols



Performance Details

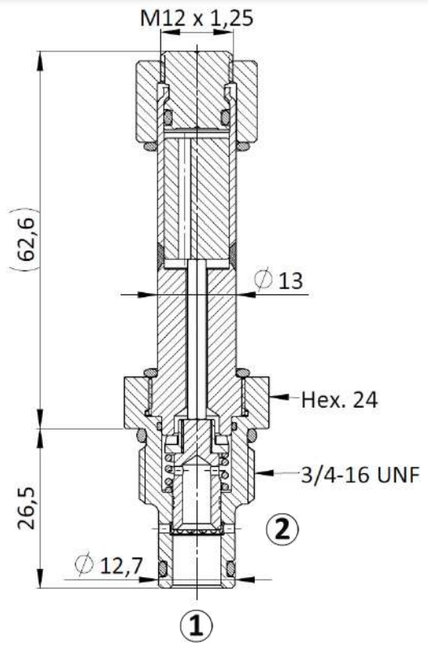
Note: For information about operating limits, please contact the factory.



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 10 l/min
Internal leakage: max 80 cm^3/min @ 250 bar
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 35-40 Nm
Seal kit code: SK.003 and SK.027 (coil)
Weight: 0.125 kg

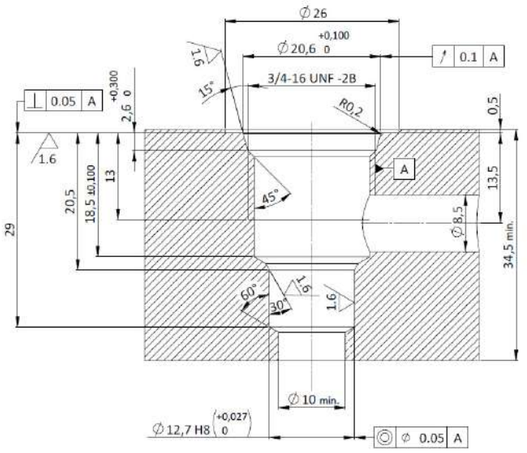
NOTE: The performance chart illustrates flow handling capacity 1 to 2 and 1 to 2 (both de-energized).
P/Q curves are recorded at TOil= 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S	V	F	0	.	S	0	8	.	0	*	.	2	0	0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 346 for more details)

Flow path
1 and 2 connected (de-energized)
1 and 2 both blocked (energized)

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

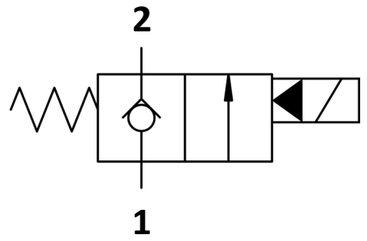
SVG0.S08 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

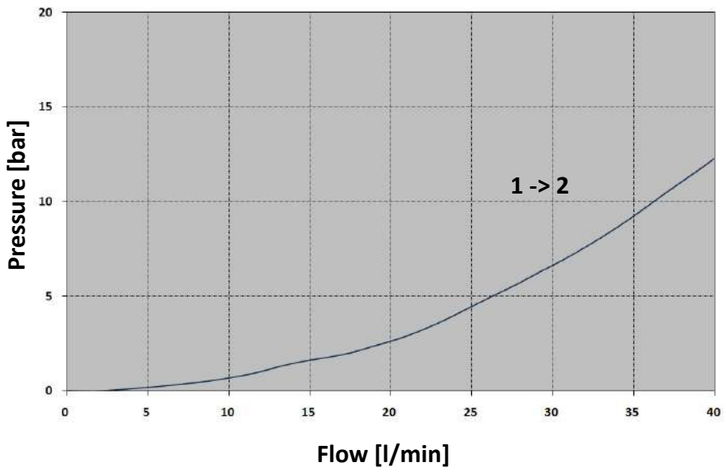
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVG0.S08 acts as check valve allowing free flow from 2 to 1, while blocking from 1 to 2.
When the coil is energized the poppet lifts and opens the 1 to 2 flow path. In this operation mode, flow from 2 to 1 is severely restricted.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



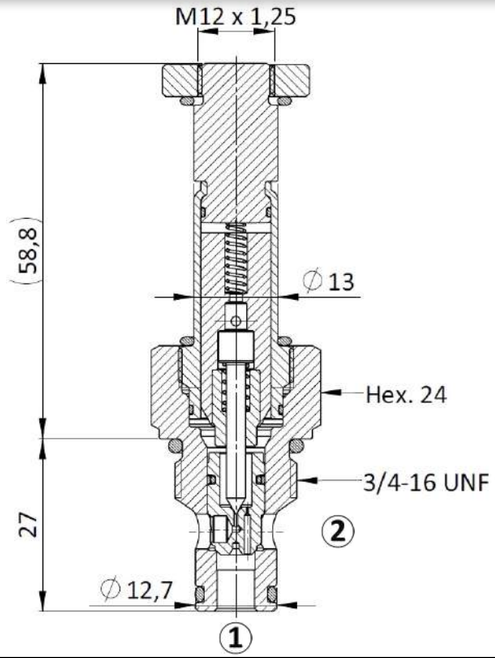
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.110 kg

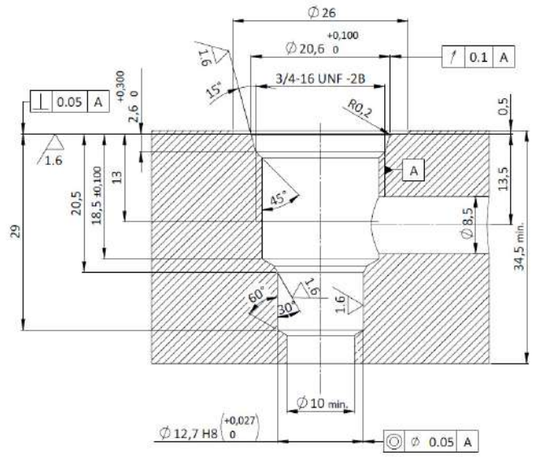
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 de-energized, 2 to 1 energized). P/Q curve is recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S V G 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)

Customized filters can be done upon request

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

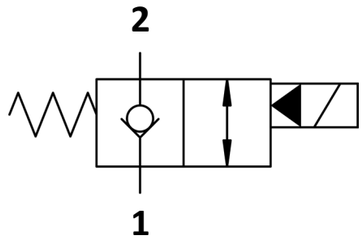
SVH0.S08 Valve Series

SAE Cartridge - 250 bar
NC Single Lock Pilot Operated - Poppet Type

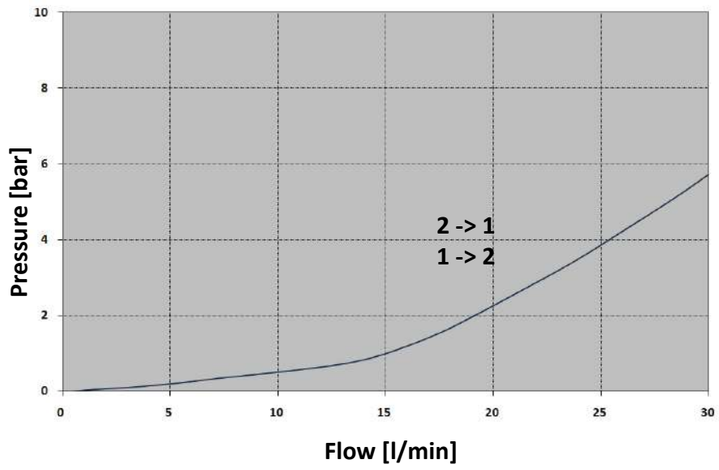
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVH0.S08 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens both the 2 to 1 and the 1 to 2 flow paths.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



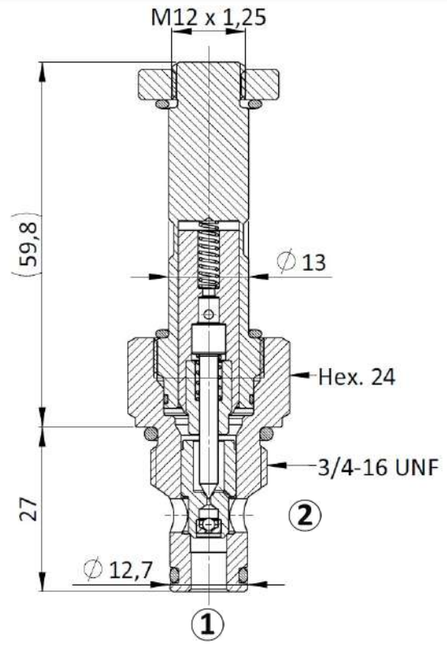
Performance Details



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 30 l/min
Internal leakage: max 5 drops/min @ 250 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.120 kg

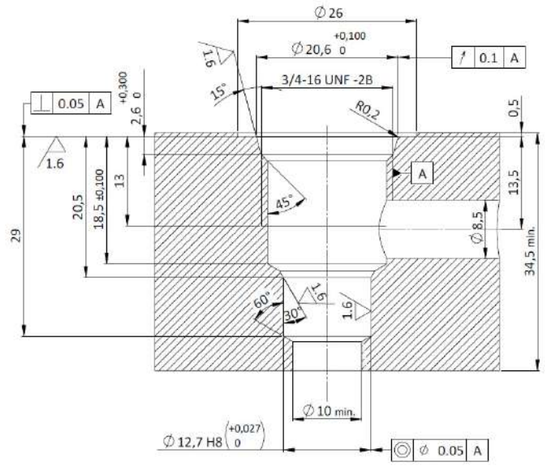
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1, both energized).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S	V	H	0	.	S	0	8	.	0	*	.	*	0	0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

SVJ0.S08 Valve Series

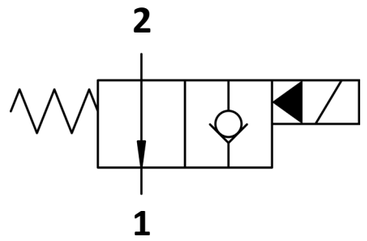
SAE Cartridge - 350 bar
NO Single Lock Pilot Operated - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVJ0.S08 allows flow from 2 to 1, while flow from 1 to 2 is severely restricted.
When the coil is energized the valve closes, blocking flow from 2 to 1.
In this mode, flow from 1 to 2 is allowed once the pressure overcomes the force of the solenoid.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

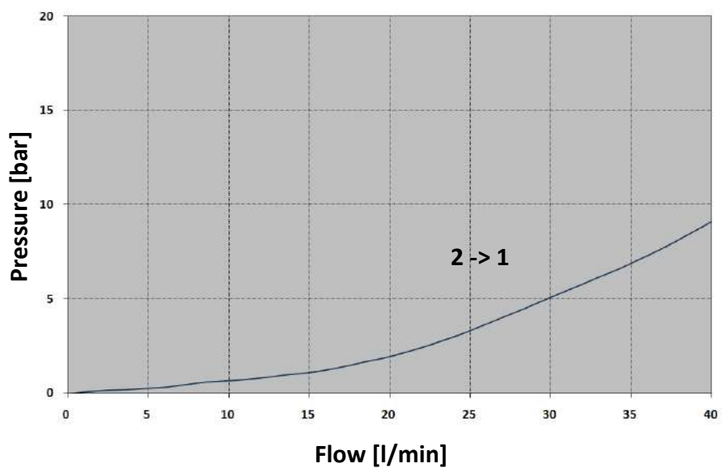
Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.
It replaces the previous SVN0.S08.

Note: Standard sealing NBR (BUNA-N)

Symbols



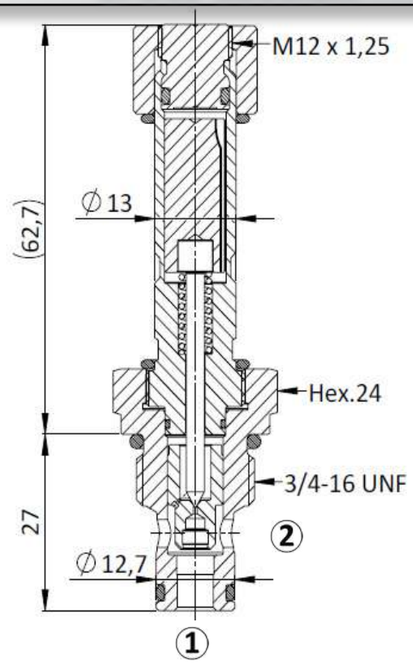
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @350 bar
Response time: Energized 20 ms,
De-energized 30 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.120 kg

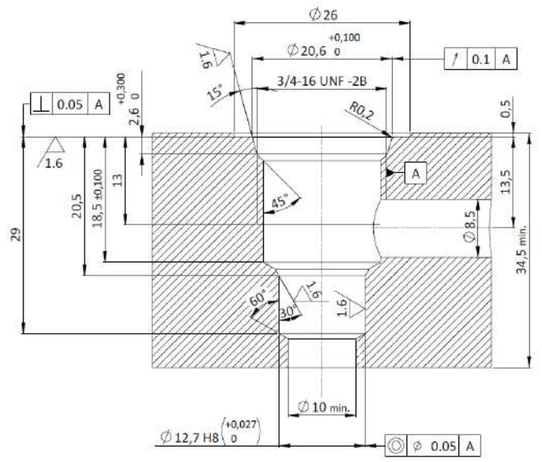
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 energized, 2 to 1 de-energized). P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S	V	J	0	.	S	0	8	.	0	*	.	*	0	0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size

Filtration (See table below for available options)

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

SVJ0.S10 Valve Series

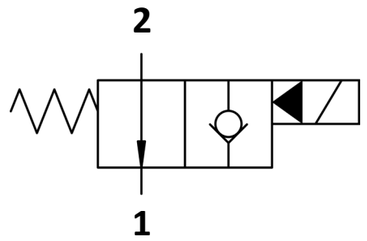
SAE Cartridge - 350 bar
NO Single Lock Pilot Operated - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVJ0.S10 allows flow from 2 to 1, while flow from 1 to 2 is severely restricted.
When the coil is energized the valve closes, blocking flow from 2 to 1.
In this mode, flow from 1 to 2 is allowed once the pressure overcomes the force of the solenoid.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

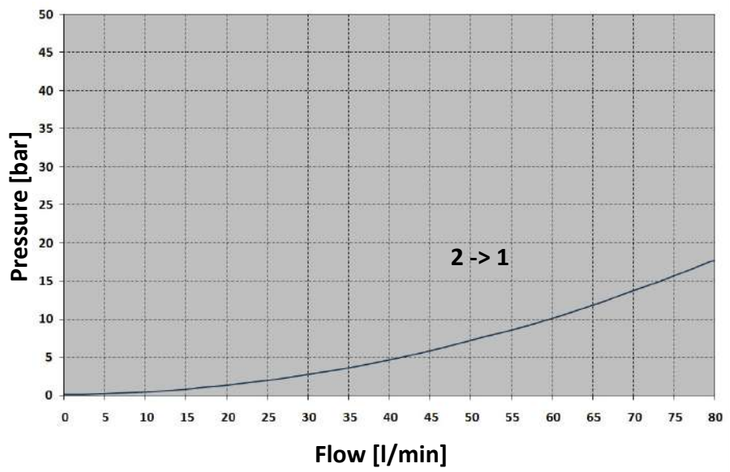
Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

Note: Standard sealing NBR (BUNA-N)

Symbols



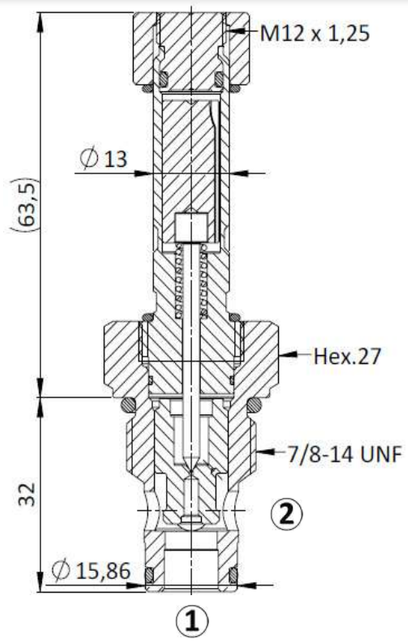
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 80 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 20 ms,
De-energized 30 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 55-65 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.164 kg

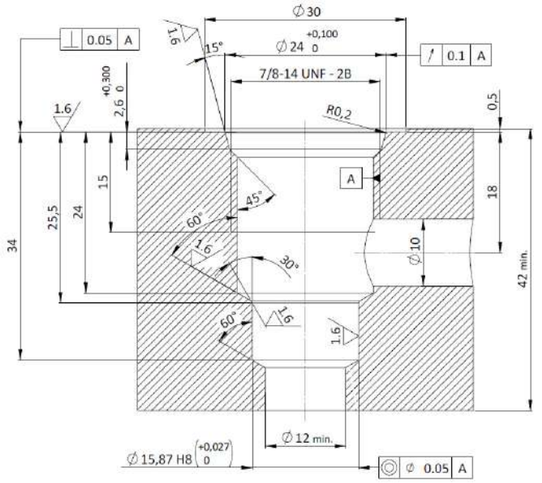
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 energized, 2 to 1 de-energized). P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE10



See page 350

Ordering Code

S V J 0 . S 1 0 . 0 * . 0 0 0

Valve basic code

Cavity
S10 = 7/8-14 UNF with Ø15,86 nose size

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

SVK0.S08 Valve Series

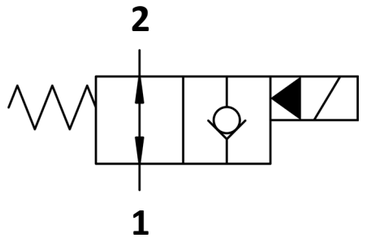
SAE Cartridge - 350 bar
NO Single Lock Pilot Operated - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVK0.S08 allows flow bidirectionally from 2 to 1, and from 1 to 2.
When the coil is energized the valve closes, blocking flow from 2 to 1.
In this mode, flow from 1 to 2 is allowed once the pressure overcomes the force of the solenoid.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

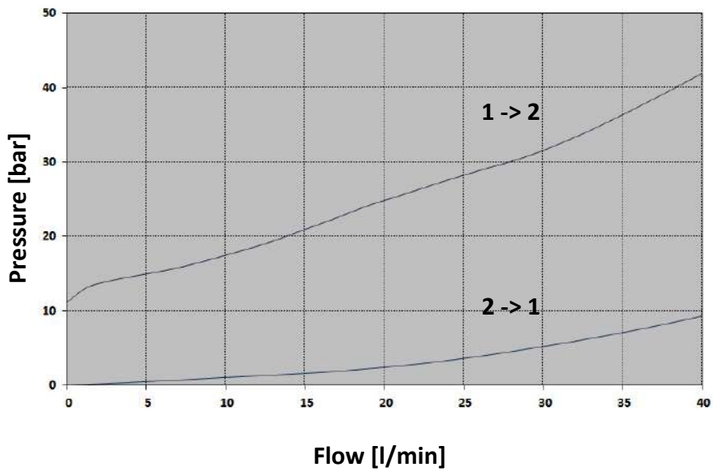
Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.
It replaces the previous SVM0.S08.

Note: Standard sealing NBR (BUNA-N)

Symbols



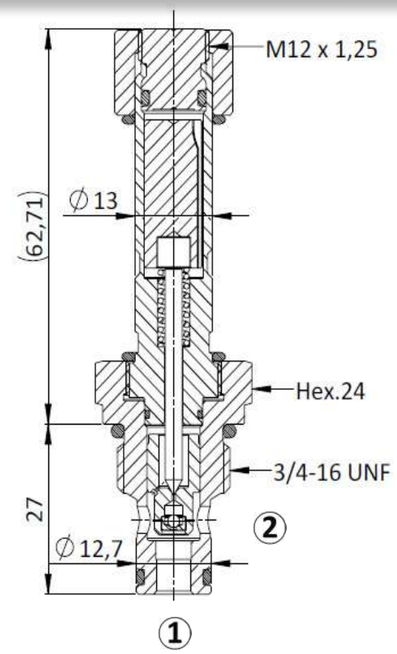
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 20 ms,
De-energized 30 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.031 and SK.027 (coil)
Weight: 0.130 kg

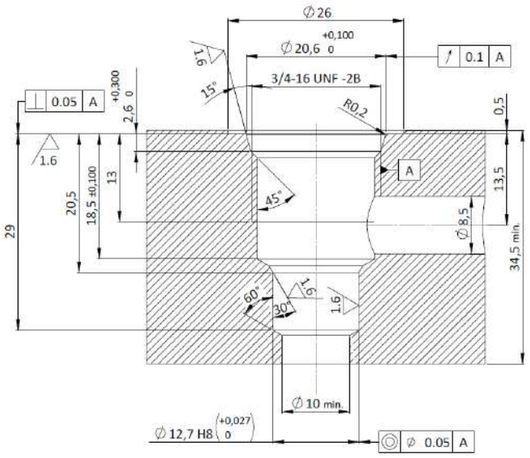
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 energized, 2 to 1 de-energized). P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S V K 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 346 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

SVK0.S10 Valve Series

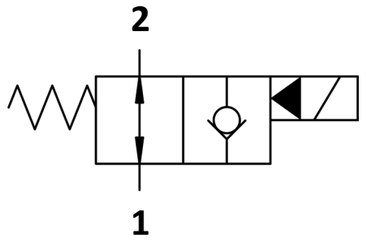
SAE Cartridge - 350 bar
NO Single Lock Pilot Operated - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVK0.S10 allows flow bidirectionally from 2 to 1, and from 1 to 2.
When the coil is energized the valve closes, blocking flow from 2 to 1.
In this mode, flow from 1 to 2 is allowed once the pressure overcomes the force of the solenoid.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

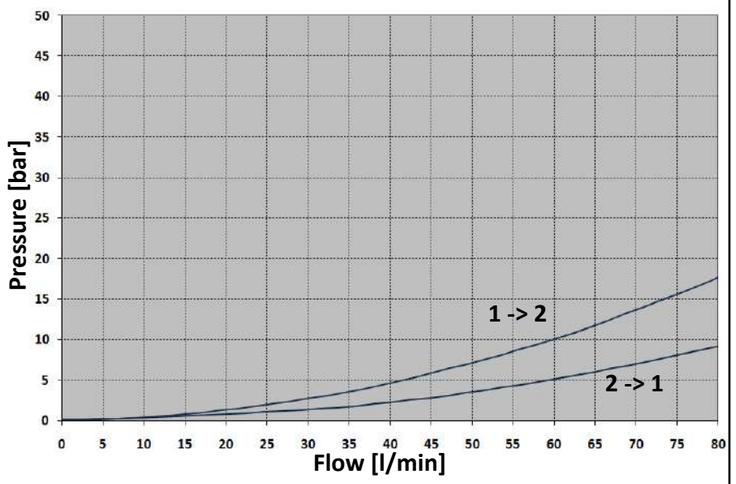
Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

Note: Standard sealing NBR (BUNA-N)

Symbols

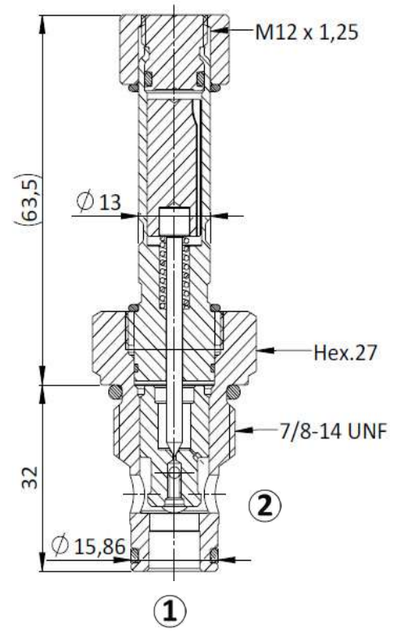


Performance Details



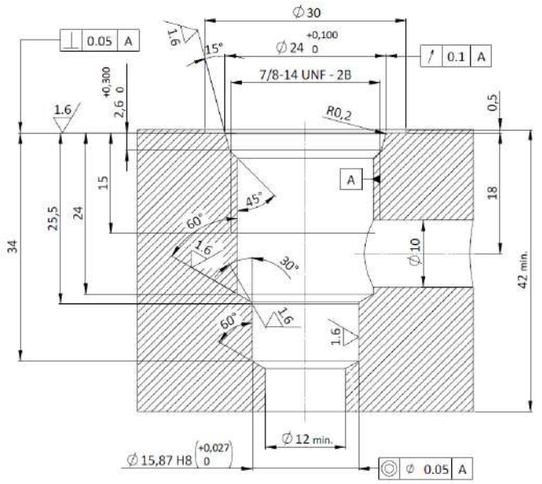
Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 80 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 20 ms,
De-energized 30 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 55-65

Cross Section



Cavity Details

SAE10



See page 350

Ordering Code

S V K 0 . S 1 0 . 0 * . 0 0 0

Valve basic code

Cavity
S10 = 7/8-14 UNF with Ø15,86 nose size

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

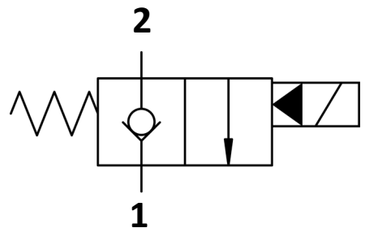
SVL0.S08 Valve Series

SAE Cartridge - 250 bar
NC Single Lock Pilot Operated - Poppet Type

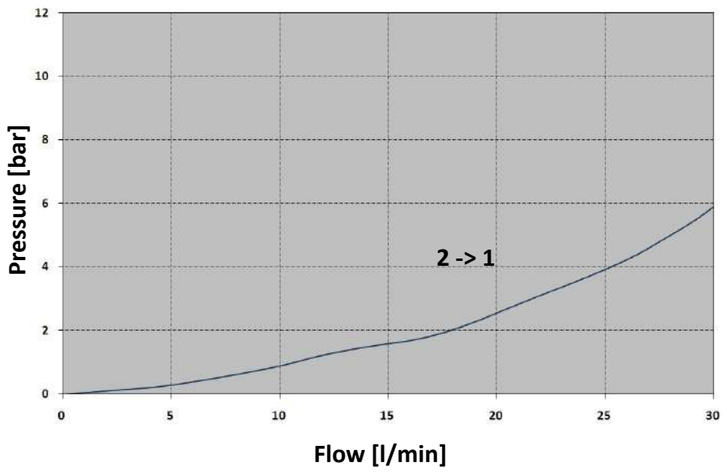
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVL0.S08 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens the 2 to 1 flow path. In this operation mode, flow from 1 to 2 is severely restricted.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



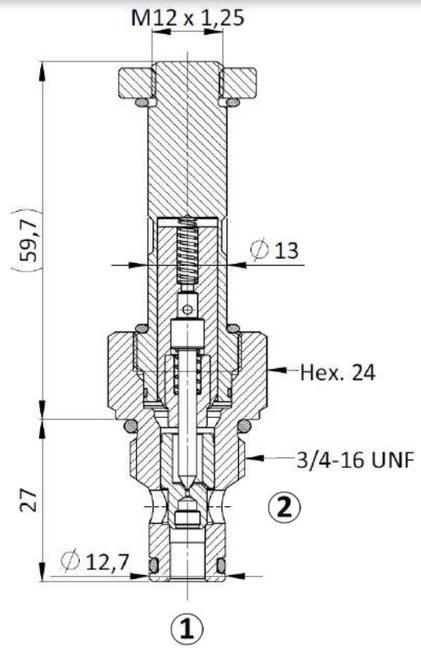
Performance Details



Technical Data
Maximum operating pressure: 250 bar
Maximum flow: 30 l/min
Internal leakage: max 5 drops/min @ 250 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.120 kg

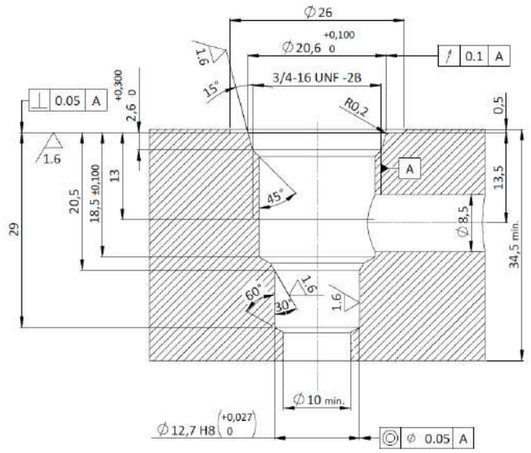
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 de-energized, 2 to 1 energized). P/Q curve is recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S V L 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

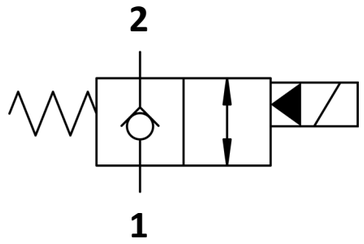
SVR0.S08 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

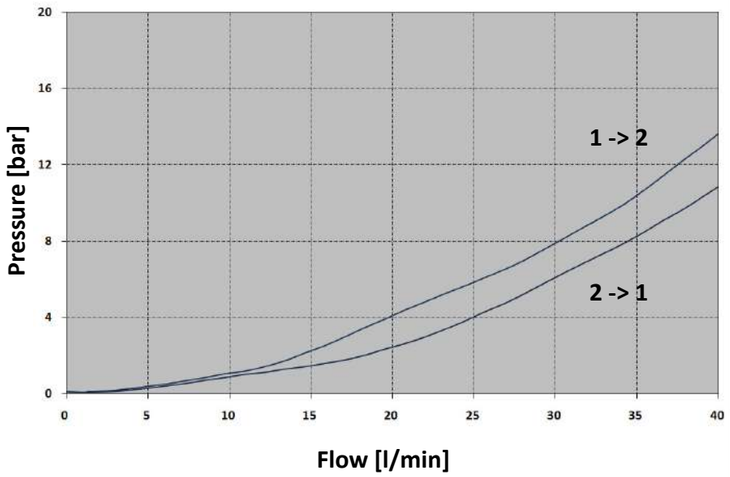
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVR0.S08 acts as check valve allowing free flow from 2 to 1, while blocking from 1 to 2.
When the coil is energized the poppet lifts and opens both the 1 to 2 and the 2 to 1 flow paths.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



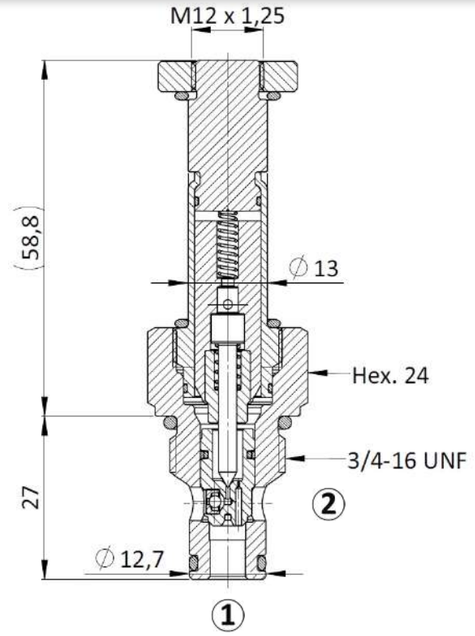
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.110 kg

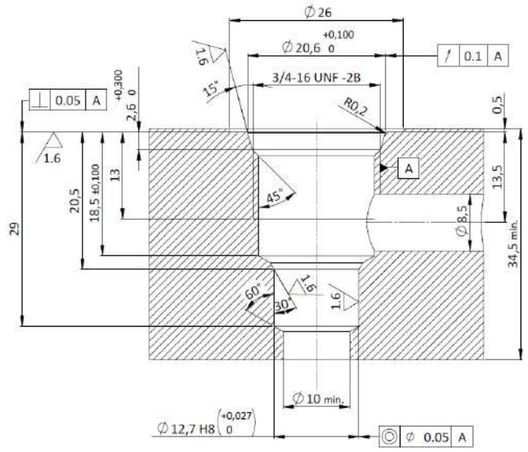
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1, both energized).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S V R 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

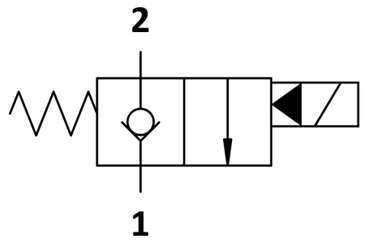
SVS0.S08 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

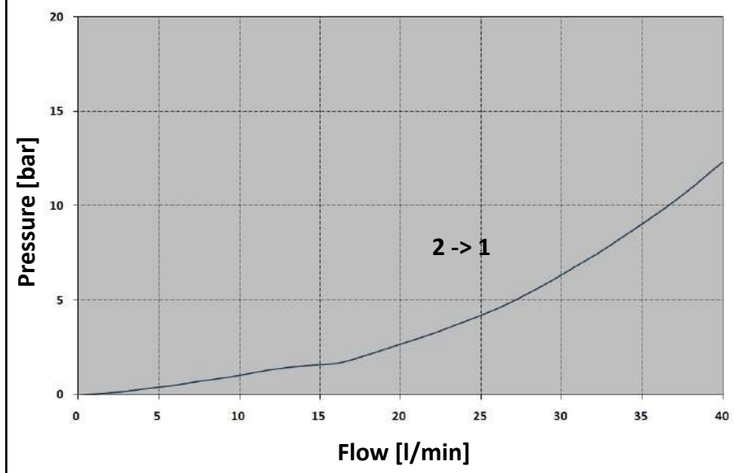
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVS0.S08 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens the 2 to 1 flow path. In this operation mode, flow from 1 to 2 is severely restricted.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



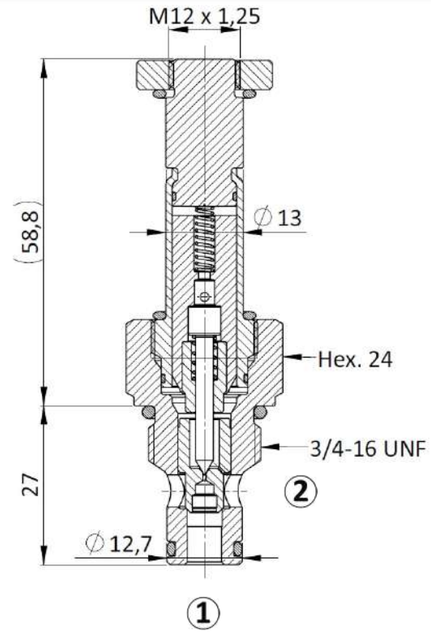
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.110 kg

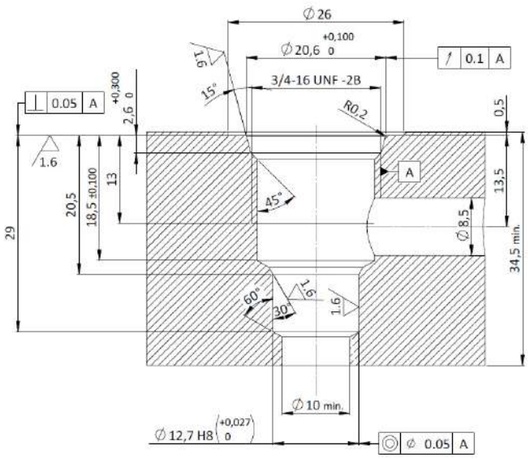
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 de-energized, 2 to 1 energized). P/Q curve is recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S V S 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

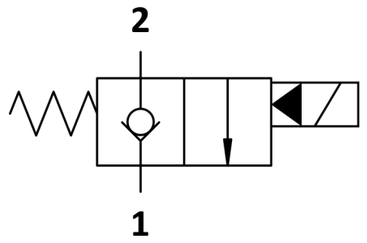
SVS0.S10 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

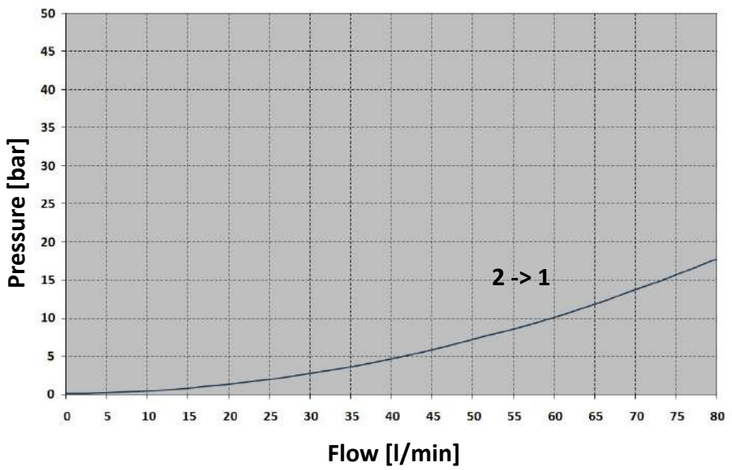
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVS0.S10 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens the 2 to 1 flow path. In this operation mode, flow from 1 to 2 is severely restricted.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



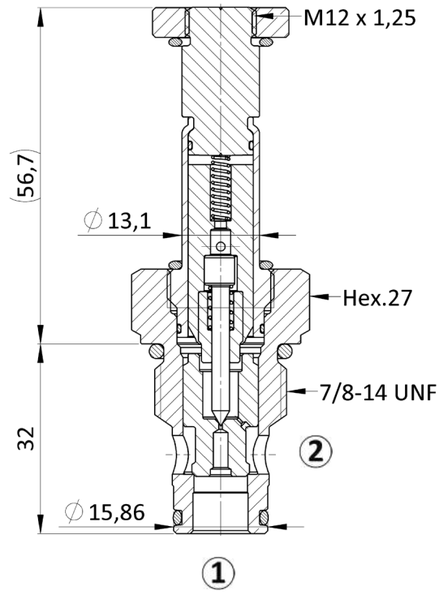
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 80 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 55-65 Nm
Seal kit code: SK.032 and SK.027 (coil)
Weight: 0.139 kg

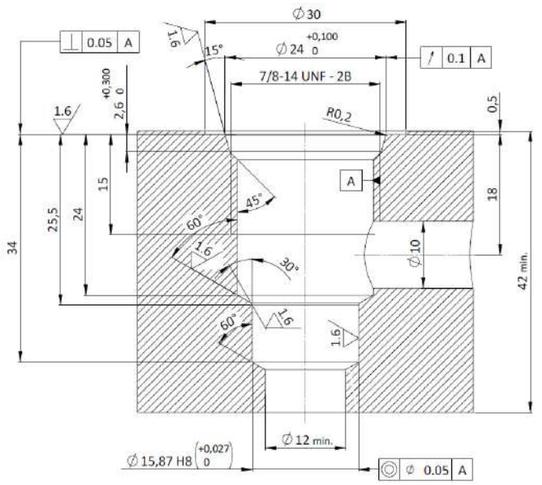
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 de-energized, 2 to 1 energized). P/Q curve is recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE10



See page 334

Ordering Code

S	V	S	0	.	S	1	0	.	0	*	.	0	0	0

Valve basic code

Cavity
S10 = 7/8-14 UNF with Ø15,86 nose size

Manual override (See table below for available options and page 330 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Coil

Use **18W** coil to operate this valve.
For more details see page 316.

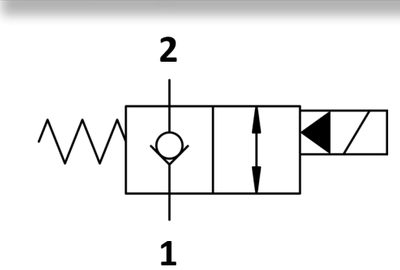
SVT0.S08 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

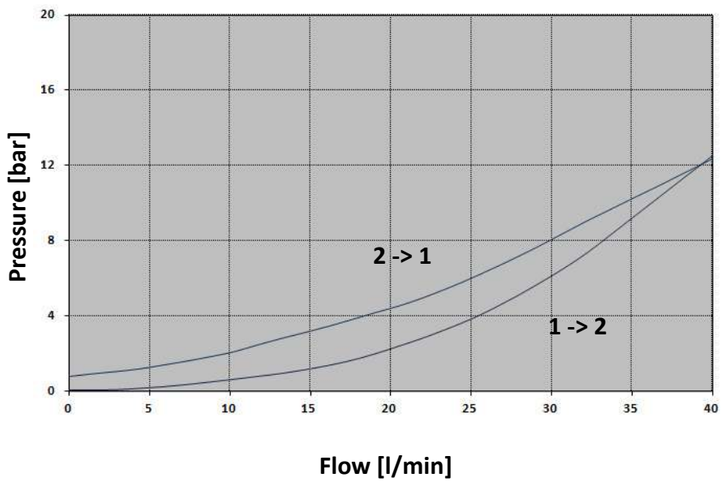
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVT0.S08 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens both the 2 to 1 and the 1 to 2 flow paths.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



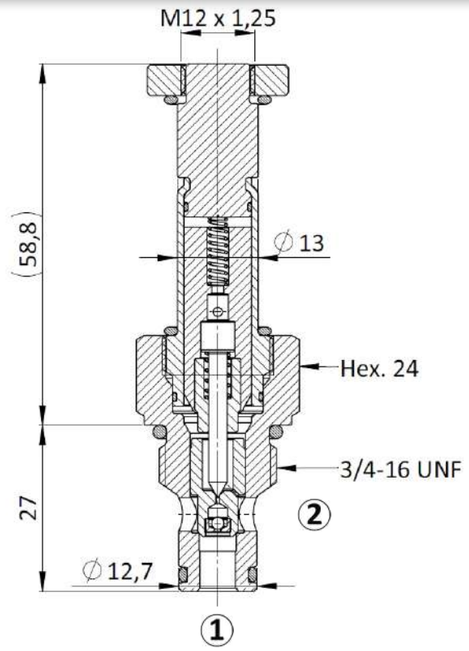
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.110 kg

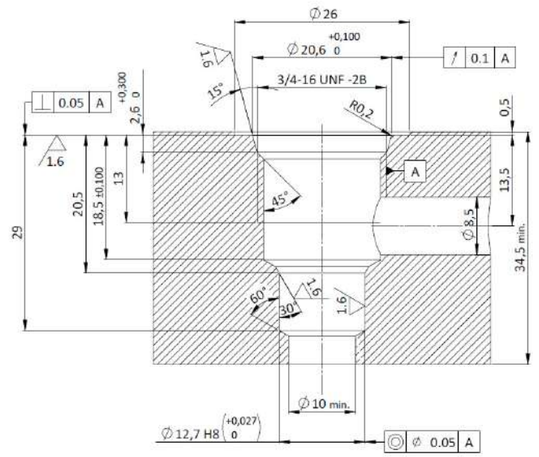
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1, both energized).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 328

Ordering Code

S V T 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
Other available options:
S09 = 3/4-16 UNF with Ø15,86 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 312.

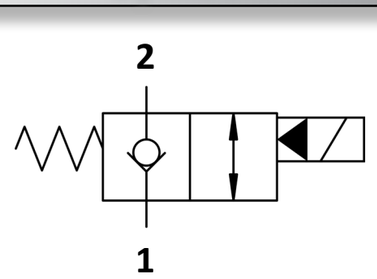
SVT0.S10 Valve Series

SAE Cartridge - 350 bar
NC Single Lock Pilot Operated - Poppet Type

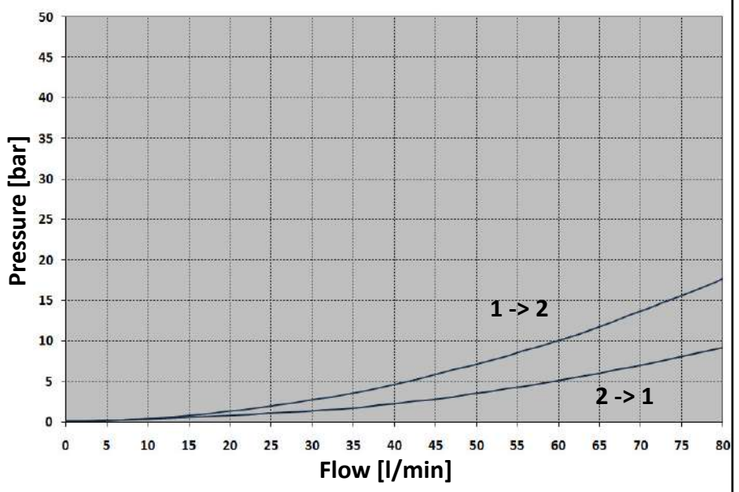
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVT0.S10 acts as check valve allowing free flow from 1 to 2, while blocking from 2 to 1.
When the coil is energized the poppet lifts and opens both the 2 to 1 and the 1 to 2 flow paths.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override options.
Industry SAE common cavity.

Symbols



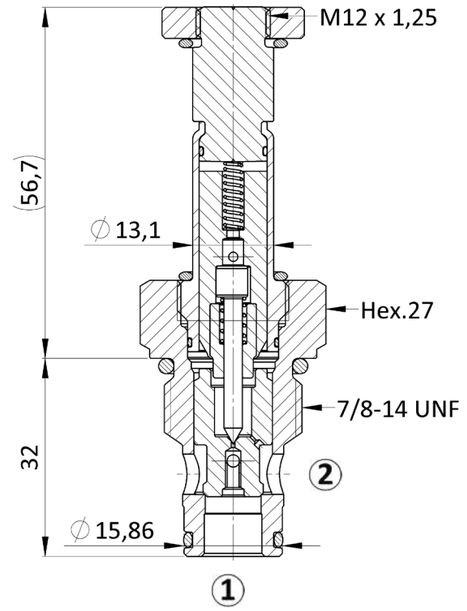
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 80 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 50 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 55-65 Nm
Seal kit code: SK.032 and SK.027 (coil)
Weight: 0.139 kg

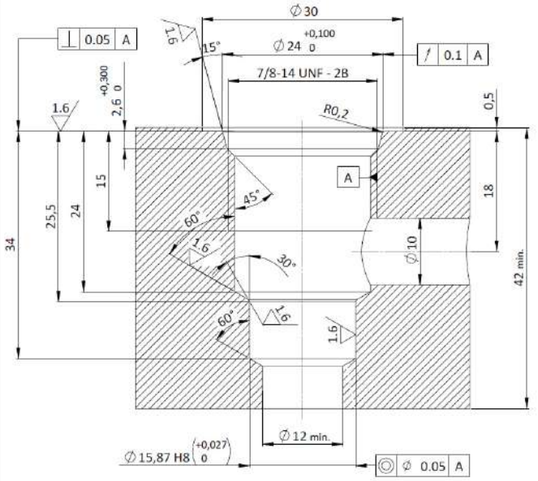
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1, both energized).
P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE10



See page 334

Ordering Code

S V T 0 . S 1 0 . 0 * . 0 0 0

Valve basic code

Cavity
S10 = 7/8-14 UNF with Ø15,86 nose size

Manual override (See table below for available options and page 330 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Coil

Use **18W** coil to operate this valve.
For more details see page 316.

SVV0.S08 Valve Series

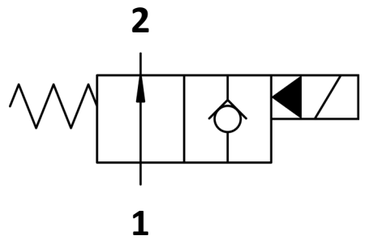
SAE Cartridge - 350 bar
NO Single Lock Pilot Operated - Poppet Type

Description
Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve.
Typically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVV0.S08 allows flow from 1 to 2, while flow from 2 to 1 is severely restricted.
When the coil is energized the valve closes, blocking flow from 1 to 2.
In this mode, flow from 2 to 1 is allowed once the pressure overcomes the force of the solenoid.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

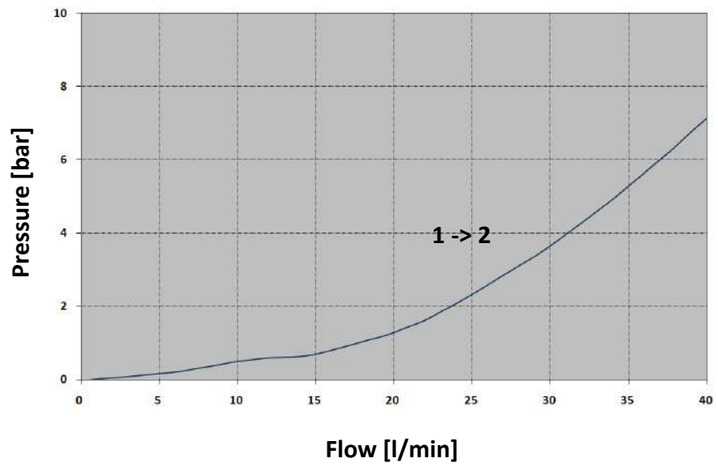
Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.
It replaces the previous SVU0.S08.

Note: Standard sealing NBR (BUNA-N)

Symbols



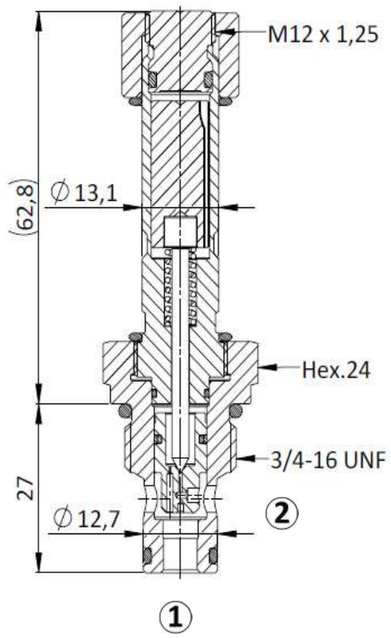
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 20 ms,
De-energized 30 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.031 and SK.027 (coil)
Weight: 0.125 kg

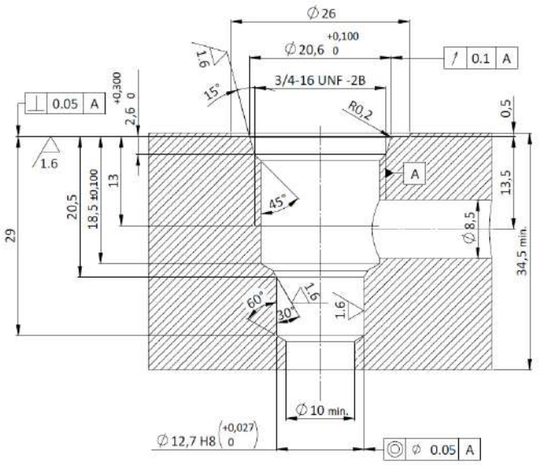
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 energized, 2 to 1 de-energized). P/Q curves are recorded at TOil = 40°C and 46 cSt

Cross Section



Cavity Details

SAE08



See page 348

Ordering Code

S V V 0 . S 0 8 . 0 * . * 0 0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size

Filtration (See table below for available options)

Manual override (See table below for available options and page 346 for more details)

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual Override

Model Code	Type of override
0	No override
3	Push pin
4	Push knob
8	Screw

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 332.

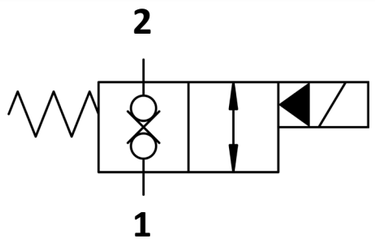
SVZ0.S08 Valve Series

SAE Cartridge - 350 bar
NC Double Lock Pilot Operated - Poppet Type

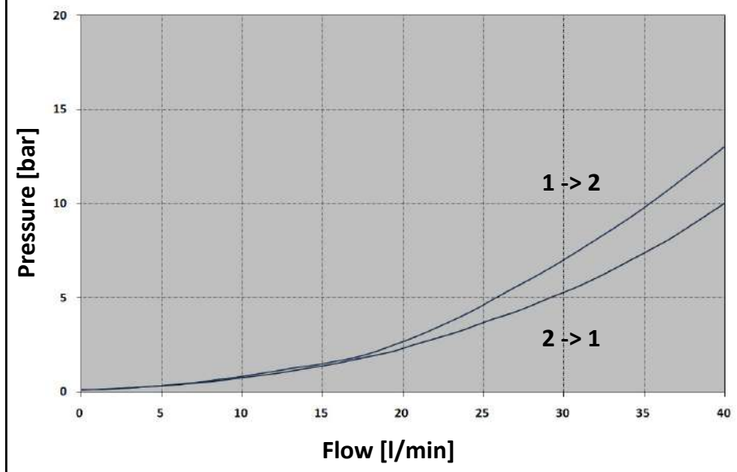
Description
Solenoid operated, 2-way 2-positions, normally closed, piloted poppet type, bi-directional blocking, screw-in cartridge valve.
Special design for low leakage in load holding applications.
Tipically used as a blocking or load holding device for high pressure circuits. When the coil is de-energized, the SVZ0.S08 blocks flow in both directions. Once the coil is energized, the valve's poppet opens and allows free flow from 1 to 2 and from 2 to 1.
The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability.
Low pressure drop thanks to optimized flow path.

Technical Features
All external surfaces are zinc plated and corrosion-proof.
All valve parts are made of high strength steel. Poppet is hardened and ground to ensure minimal wear and extended service life.
Coil seals protect the solenoid system.
Manual override option.
Industry SAE common cavity.

Symbols



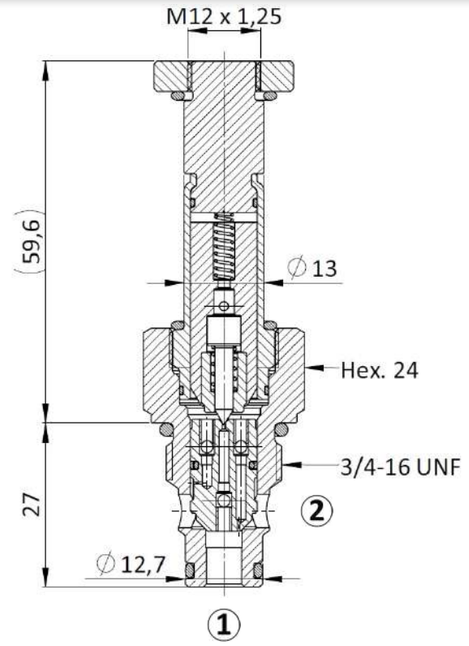
Performance Details



Technical Data
Maximum operating pressure: 350 bar
Maximum flow: 40 l/min
Internal leakage: max 5 drops/min @ 350 bar
Response time: Energized 30 ms,
De-energized 60 ms (typical 24V DC coil)
Temperature: -30°C to 110°C
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt
Minimum pull-in voltage: 85% of nominal
Orientation: no restrictions
Installation torque: 40-45 Nm
Seal kit code: SK.030 and SK.027 (coil)
Weight: 0.120 kg

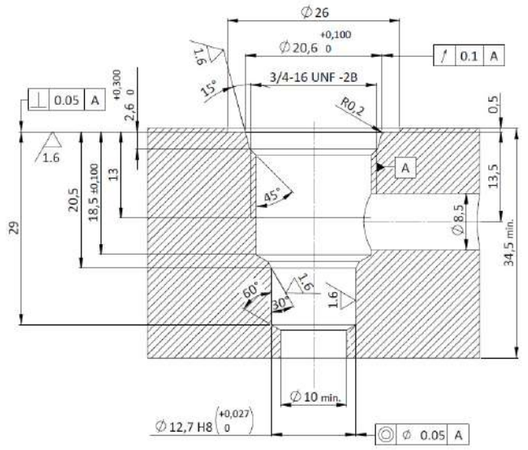
NOTE: The performance chart illustrates flow handling capacity in both directions (1 to 2 and 2 to 1). P/Q curves are recorded at TOil = 40°C and 46 cSt.

Cross Section



Cavity Details

SAE08



See page 332

Ordering Code

S	V	Z	0	.	S	0	8	.	0	*	.	*	0	0

Valve basic code

Cavity
S08 = 3/4-16 UNF with Ø12,7 nose size
M20 = M20 x 1,5 with Ø15 nose size

Marking
0 = Standard factory marking
Customized markings can be done upon request

Manual override (See table below for available options and page 326 for more details)

Filtration (See table below for available options)

Manual Override

Model Code	Type of override
0	No override
1	Screw
2	Push & Twist
6	Pull & Hold

Filtration

Model Code	Type of filter
N	No filter
F	Standard filter (mesh size 280 µm)
Customized filters can be done upon request	

Coil

Use **18W** coil to operate this valve.
For more details see page 316.