TÜVRheinland® ISO 9001
CERT

Hydrauli Screw-in Cartridge Valves

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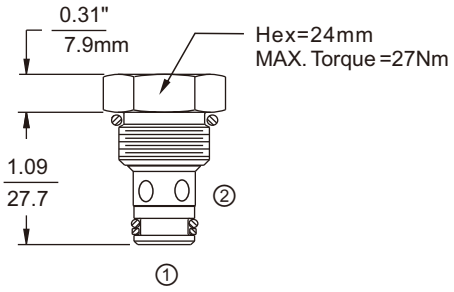
CVP08R

Check Valve, Poppet Type

OPERATION

Pressure at ① overcomes the spring-bias poppet and allows free flow from ① to ② .Flow in the opposite direction, from ② to ① ,is blocked by the poppet.



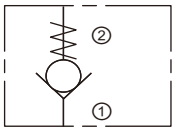
SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 250bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Crack Pressures:	3.0bar
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

Unit

in
mm

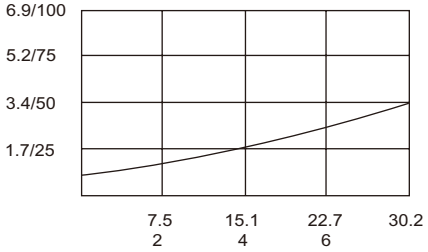
SYMBOL



PRESSURE DROP VS.FLOW

Pressure drop (bar/psi)

① to ② (FREE FLOW)
32cSt oil @ 40°C



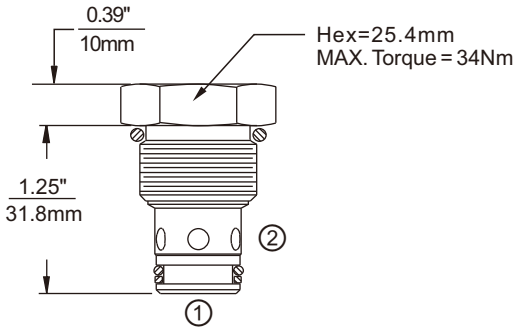
FLOW gpm(lpm)

CVP10R

Check Valve, Poppet Type

OPERATION

Pressure at ① overcomes the spring-bias poppet and allows free flow from ① to ② .Flow in the opposite direction, from ② to ① ,is blocked by the poppet.



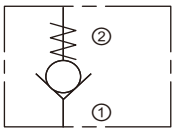
SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 250bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Crack Pressures:	6.9bar
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

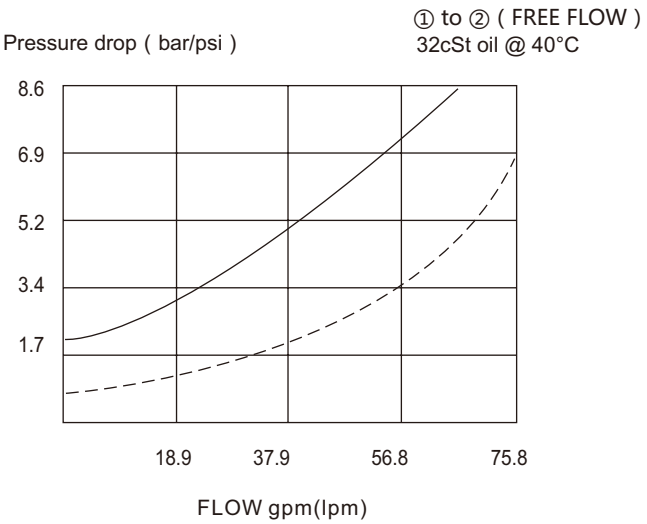
Unit

in
mm

SYMBOL

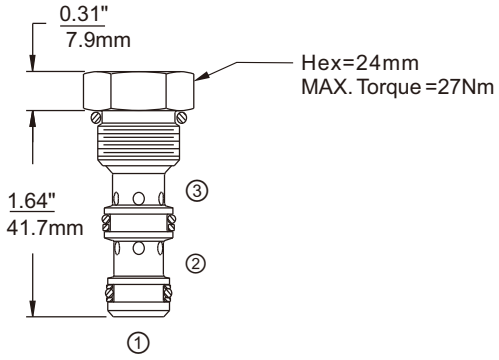


PRESSURE DROP VS.FLOW



CVP0830

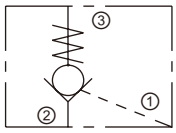
Check Valve, Pilot Operated



Unit

in
mm

SYMBOL



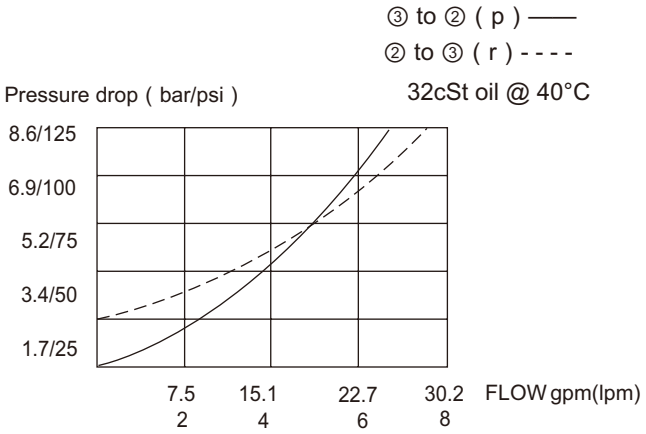
OPERATION

The valve allows flow from ② to ③ , while normally blocking flow from ③ to ② . Flow will be allowed from ③ to ② when sufficient pressure is applied at ① . The cartridge has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at ③ is required at ① to open the valve.

SPECIFICATIONS

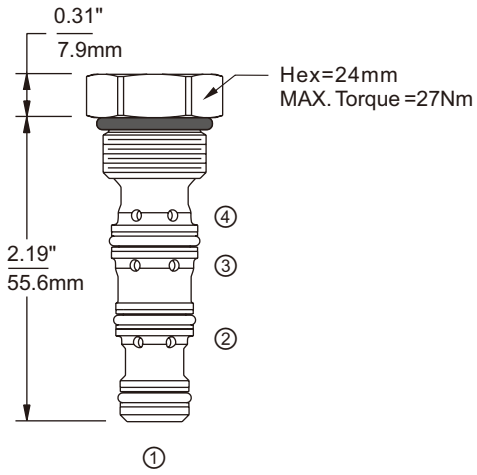
Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	③to②: 3 drops/min. (0.15 ml/min.) at 250bar
	②to① with sealed piston: zero leakage
Temperature:	-40°F to +212°F(-40°C to +100°C)
Crack Pressures:	5.0bar
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-3, See page I-A1

PRESSURE DROP VS.FLOW



CVP0840

Check Valve, Dual-pilot Operated



OPERATION

The valve will block flow from ① to ②, and from ④ to ③. Flow is allowed in the opposite direction when pressure is applied to port ② and/or ③. The valve has a 3:1pilot ratio, so at least 40 percent of the load pressure at port ① or ④ is required at the pilot lines (port ③ or ②)to open the flow passage to allow flow from port ① or ④.

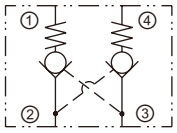
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Crack Pressures:	3.4bar
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-A2

Unit

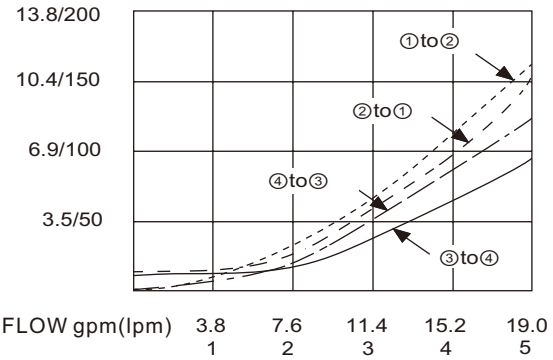
in
mm

SYMBOL



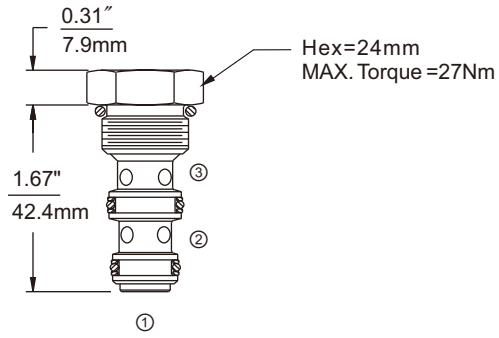
PRESSURE DROP VS.FLOW

32cSt oil @ 40°C



LS0830

Shuttle Valve, Ball Type



OPERATION

The valve will allow flow from the higher pressure of port ① or ③ to the port ②. The valve is commonly used to direct oil from the pressure side of a bidirectional hydraulic motor to a pressure-released hydraulic brake.

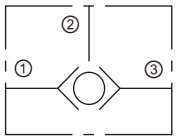
SPECIFICATIONS

Max. Operating Pressure:	240bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	5 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-3, See page I-A2

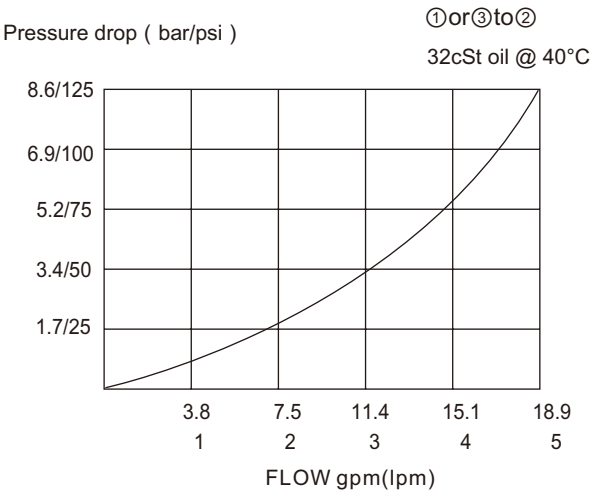
Unit

in
mm

SYMBOL

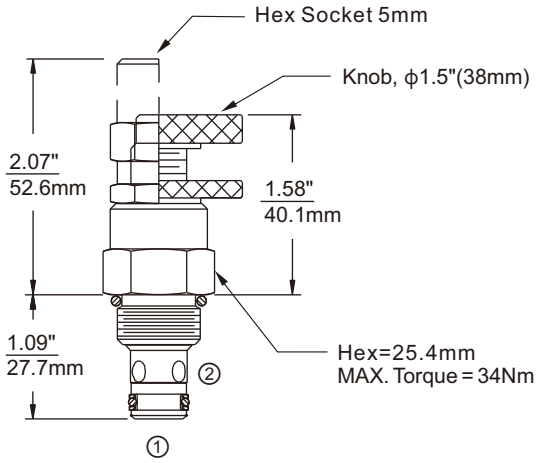


PRESSURE DROP VS.FLOW



NVA08

Needle Valve, Manually Adjustable



OPERATION

The valve varies flow restriction by adjusting needle in or out and will shut off when fully closed. These valves will meter flow in either direction.

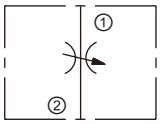
SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min. max. at shut-off
Temperature:	-40°F to +212°F(-40°C to +100°C)
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

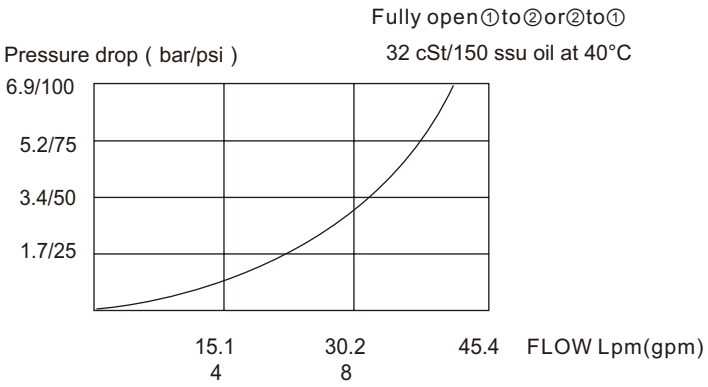
Unit

in
mm

SYMBOL

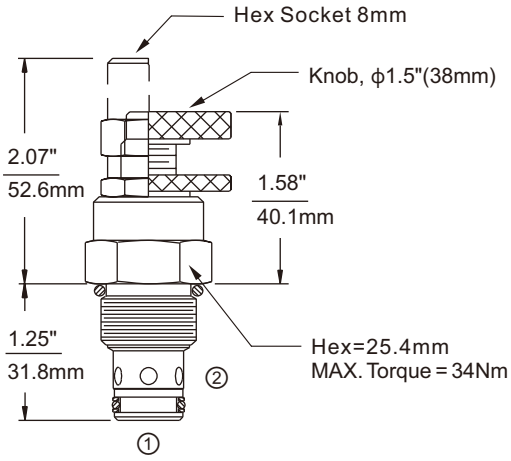


PRESSURE DROP VS.FLOW



NVA10

Needle Valve, Manually Adjustable



OPERATION

The valve varies flow restriction by adjusting needle in or out and will shut off when fully closed. These valves will meter flow in either direction.

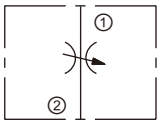
SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min. max. at shut-off
Temperature:	-40°F to +212°F(-40°C to +100°C)
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

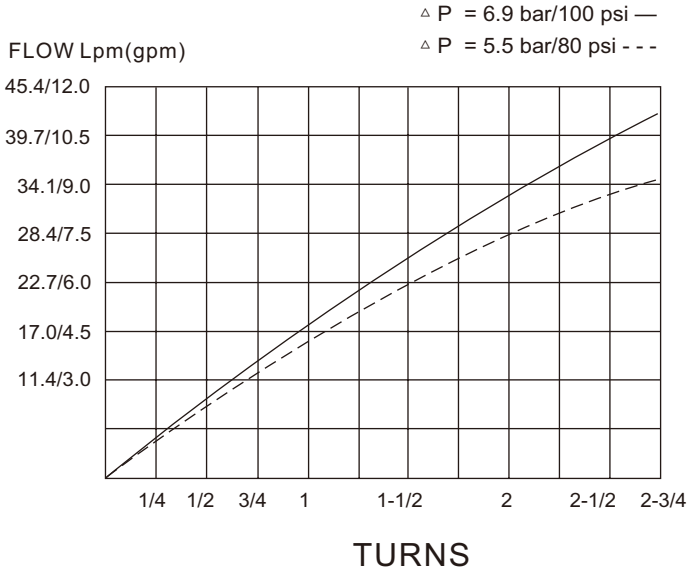
Unit

in
mm

SYMBOL

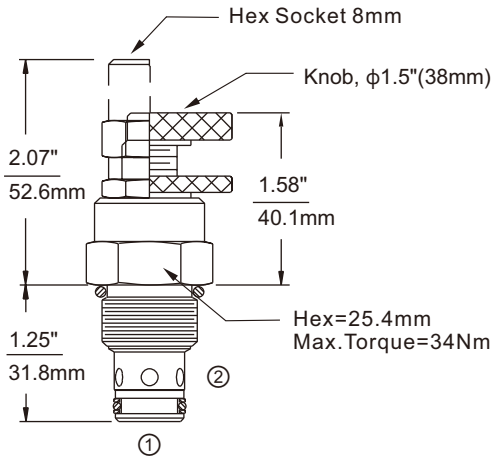


PRESSURE DROP VS.FLOW



FC1020

Flow Control Valve, with Reverse Flow Check



OPERATION

The valve varies flow restriction by adjusting needle in or out. Flow is metered from ② to ① . Free reverse flow is from ① to ②

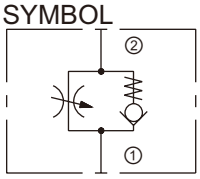
SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min. max. at shut-off
Temperature:	-40°F to +212°F(-40°C to +100°C)
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

Unit

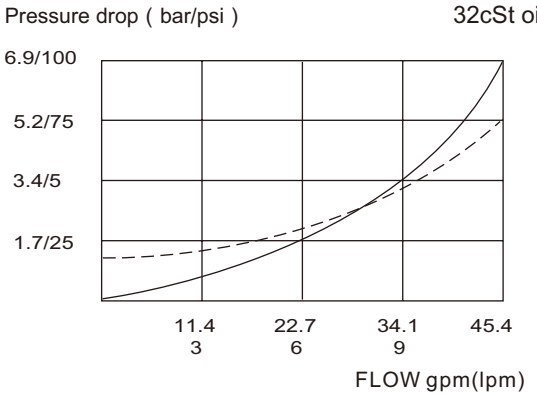
in
mm

SYMBOL



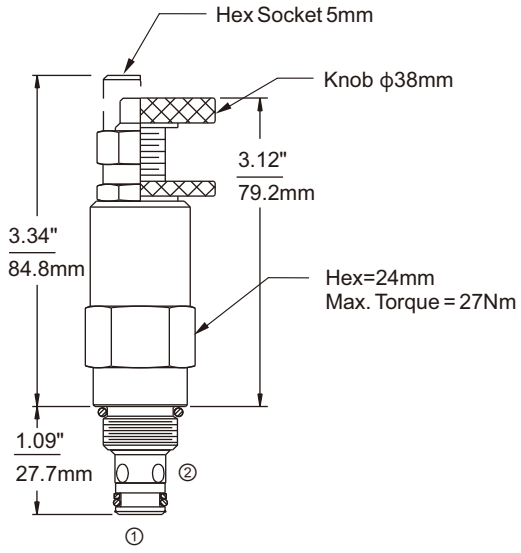
PRESSURE DROP VS.FLOW

Full Open——;
Rev.Flow- - - -;
32cSt oil @ 40°C



RVP08

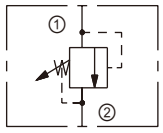
Pressure Relief Valve, Adjustable



Unit

in
mm

SYMBOL



OPERATION

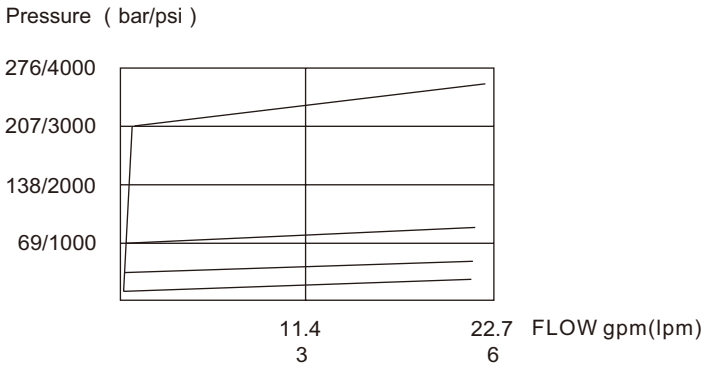
The valve prevents flow from ① to ② until the set crack pressure at ① is achieved. The poppet then unseats allowing flow from ① to ② to protect the circuit from over pressurization.

SPECIFICATIONS

Max. Operating Pressure:	350bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	5 drops/min. max. to 80% of nominal setting
Temperature:	-40°F to +212°F(-40°C to +100°C)
Reseat Pressure:	80% of crack pressure
Standard Spring Ranges:	20 to 125 bar; preset: 69 bar
	40 to 180 bar; preset:138 bar
	180 to 350 bar; preset:207 bar
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

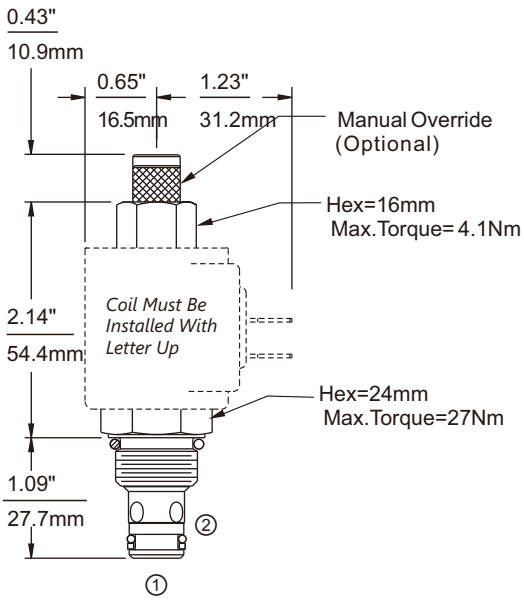
PRESSURE DROP VS.FLOW

32cSt oil @ 40°C



SVP08DL

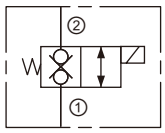
2-Way Solenoid Valve, Normally Closed, Dual-Lock



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve blocks flow in both directions.
When energized, the poppet shifts to allow flow in both directions.

Operation of Manual Override

(SVP08DLM)

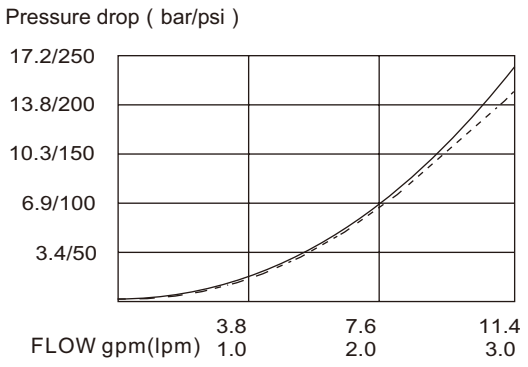
To override, push button in to activate. To return to normal valve function, release button.

SPECIFICATIONS

Max. Operating Pressure:	250bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	1 drops/min.max. at 250bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

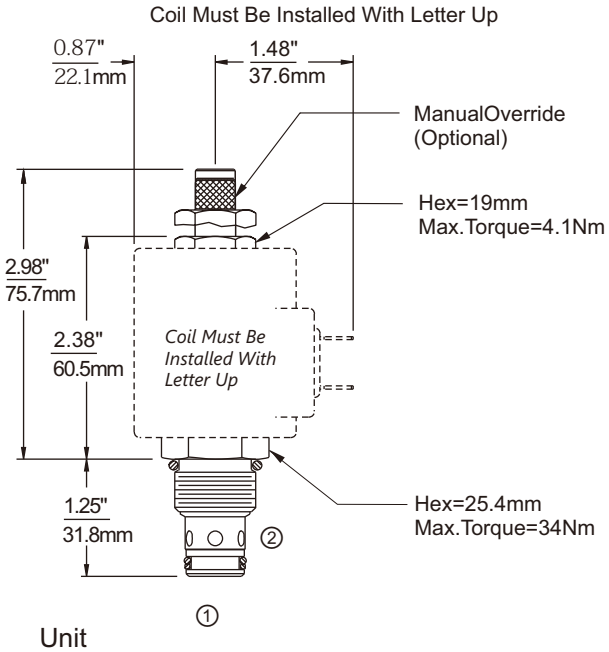
PRESSURE DROP VS.FLOW

② to ① (Energized) ——
① to ② (Energized) - - - -
32cSt oil @ 40°C



SVP10DL

2-Way Solenoid Valve, Normally Closed, Dual-Lock



Unit

in
mm

OPERATION

When de-energized, the valve blocks flow in both directions.
When energized, the poppet shifts to allow flow in both directions.

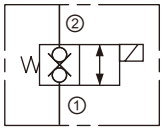
Operation of Manual Override *(SVP10DLM)*

To override, push button in to activate. To return to normal valve function, release button.

SPECIFICATIONS

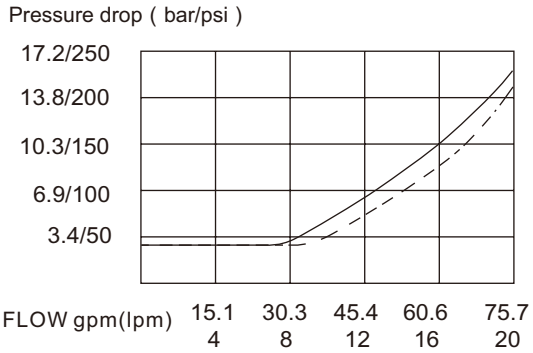
Max. Operating Pressure:	300bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	5 drops/min.max. at 300bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

SYMBOL



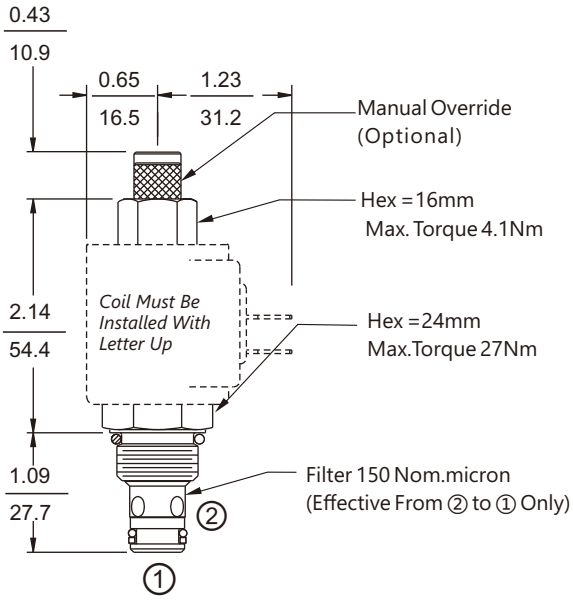
PRESSURE DROP VS.FLOW

② to ① (Energized) ——
① to ② (De-energized) - - - -
32cSt oil @ 40°C



SVP08NC

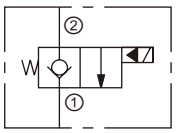
2-Way Solenoid Valve, Normally Closed, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve acts as a check valve, allowing flow from ① to ②,while blocking flow from ② to ① . When energized , the poppet lifts to open the ② to ① flow path.

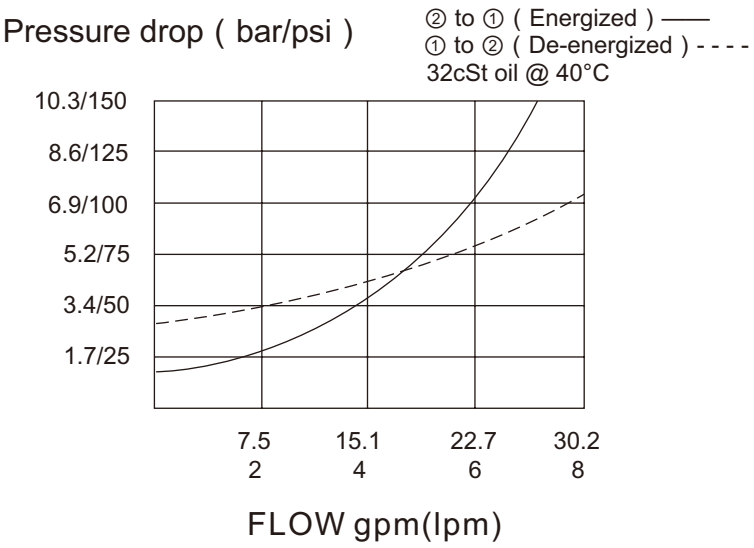
Operation of Manual Override *(SVP08NCM)*

To override, push button in, twist counterclockwise 180° and release. In this position,the valve will remain open in a detented condition. To return to normal operation, pushbutton in , twist clockwise 180° and release. Override will be detented in this position.

SPECIFICATIONS

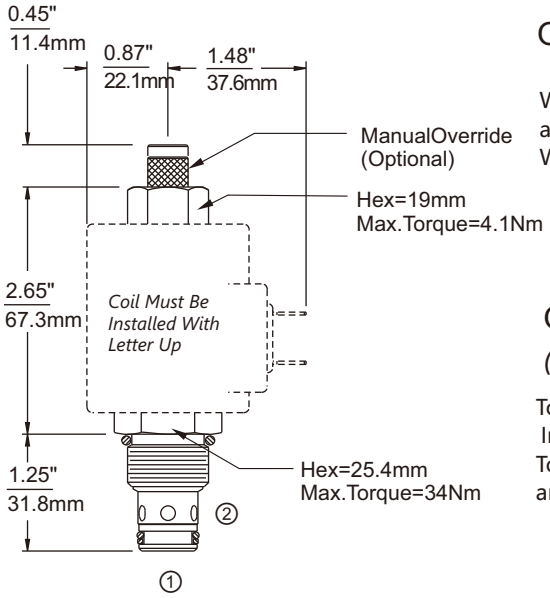
Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

PRESSURE DROP VS.FLOW



SVP10NC

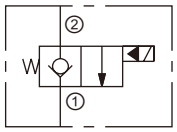
2-Way Solenoid Valve, Normally Closed, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve acts as a check valve, allowing flow from ① to ②,while blocking flow from ② to ① .
When energized , the poppet lifts to open the ② to ① flow path.

Operation of Manual Override *(SVP10NCM)*

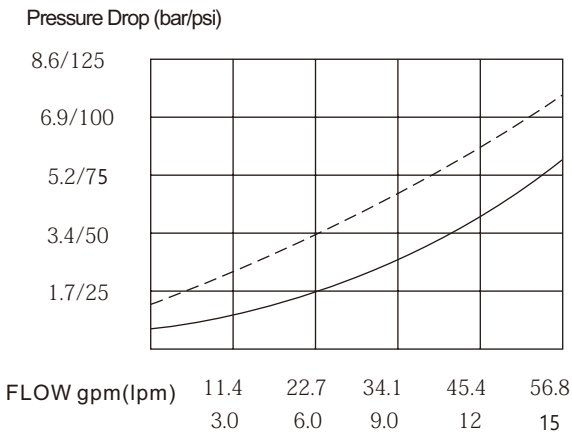
To override, push button in, twist counterclockwise 180° and release. In this position,the valve will remain open in a detented condition. To return to normal operation, pushbutton in , twist clockwise 180° and release. Override will be detented in this position.

SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2,See pag I-A2

PRESSURE DROP VS.FLOW

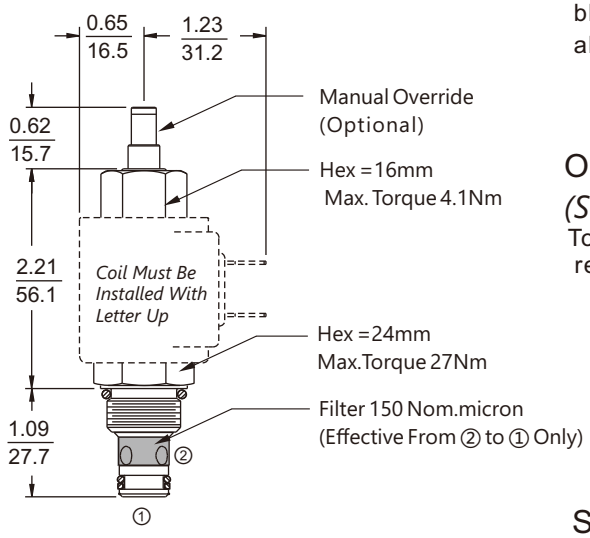
② to ① (Energized) ——
① to ② (De-energized) - - - -
32cSt oil @ 40°C



SVP08NO

2-Way Solenoid Valve, Normally Open, Poppet-type

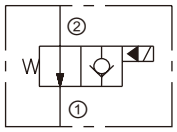
Coil Must Be Installed With Letter Up



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve allows flow from ②to ① .
Flow from ① to ② is severely restricted in this mode.
When energized the valve's poppet closes on its seat,
blocking flow from ② to ① .The cartridge will
allow ① to ② flow after overcoming the solenoid force.

Operation of Manual Override

(SVP08NOM)

To override, push button in to activate. To return to normal valve function, release button..

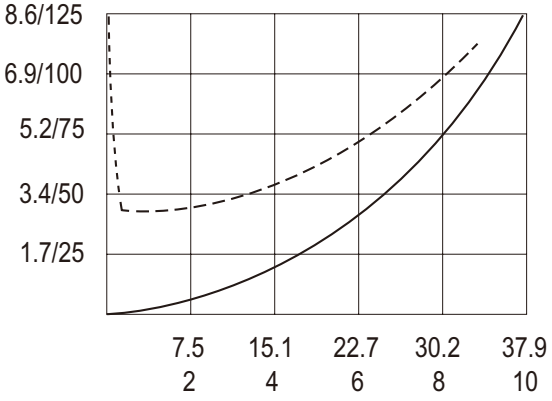
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

PRESSURE DROP VS.FLOW

② to ①(De-energized) ——
① to ②(Energized) - - - -
32cSt oil @ 40°C

Pressure drop (bar/psi)

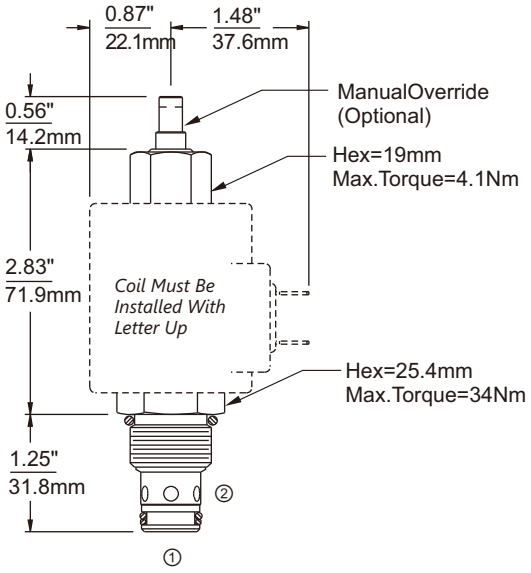


FLOW gpm(lpm)

SVP10NO

2-Way Solenoid Valve, Normally Open, Poppet-type

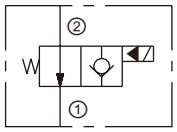
Coil Must Be Installed With Letter Up



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve allows flow from ②to ①.
Flow from ① to ② is severely restricted in this mode.
When energized the valve' s poppet closes on its seat,
blocking flow from ② to ①.The cartridge will
allow ① to ② flow after overcoming the solenoid force.

Operation of Manual Override

(SVP10NORM)

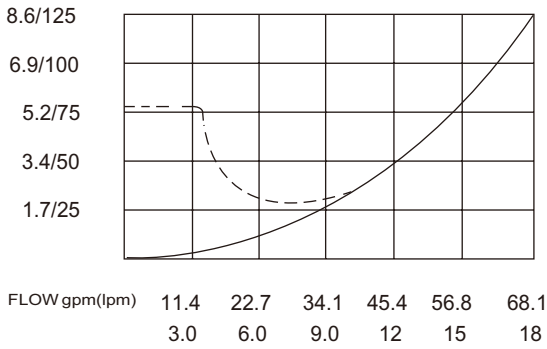
To override, push button in to activate. To return to normal valve function, release button..

SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

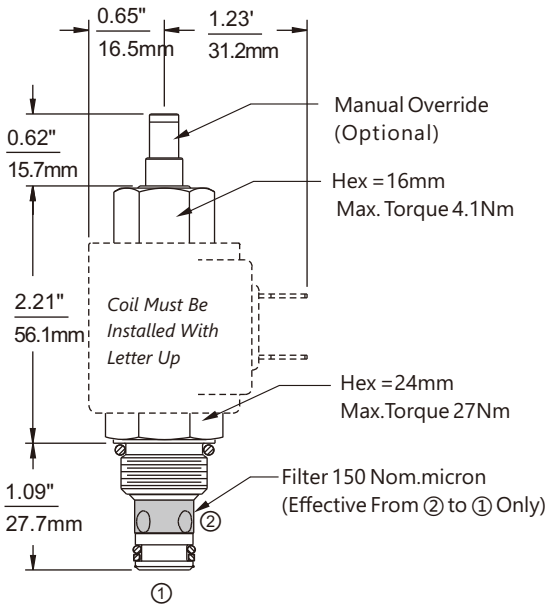
PRESSURE DROP VS.FLOW

② to ①(De-energized) ——
① to ②(Energized) - - - -
32cSt oil @ 40°C



SVP08NOR

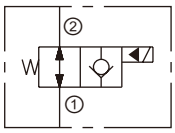
2-Way Solenoid Valve, Normally Open, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the poppet lifts to open flow from ② to ① .
Flow is also open from ① to ② .
When energized ,the cartridge acts as a check valve, allowing flow from ① to ② while blocking flow from ② to ① , after overcoming the solenoid force (requires 3.4 to 10.3bar [50 to 150 psi).

Manual Override Option *(SVP08NORM)*

To override, push button in to activate. To return to normal valve function, release button..

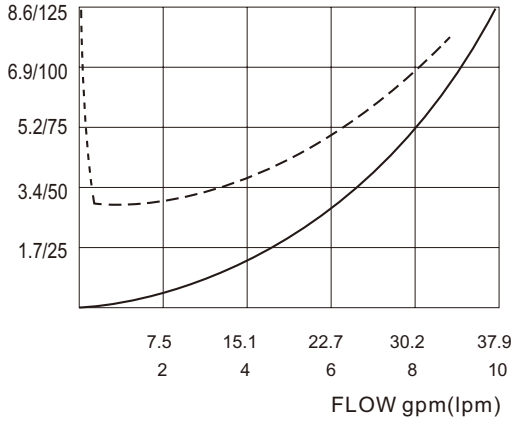
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	2 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

PRESSURE DROP VS.FLOW

Pressure drop (bar/psi)

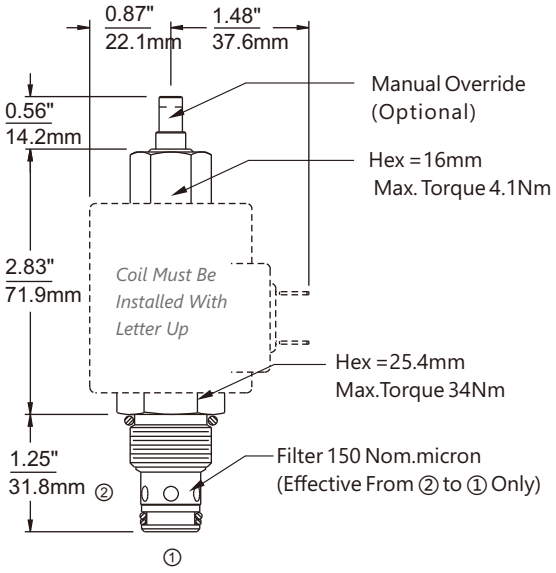
② to ①(De-energized) ——
① to ②(Energized) - - - -
32cSt oil @ 40°C



SVP10NOR

2-Way Solenoid Valve, Normally Open, Poppet-type

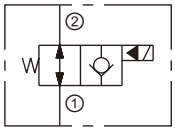
Coil Must Be Installed With Letter Up



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the poppet lifts to open flow from ② to ① .
Flow is also open from ① to ② .
When energized ,the cartridge acts as a check valve, allowing flow from ① to ② while blocking flow from ② to ① , after overcoming the solenoid force (requires 3.4 to 10.3 bar [50 to 150 psi)..

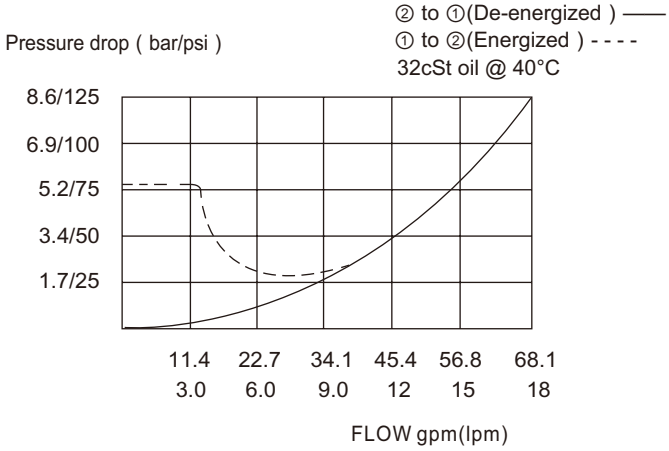
Manual Override Option *(SVP10NORM)*

To override, push button in to activate. To return to normal valve function, release button..

SPECIFICATIONS

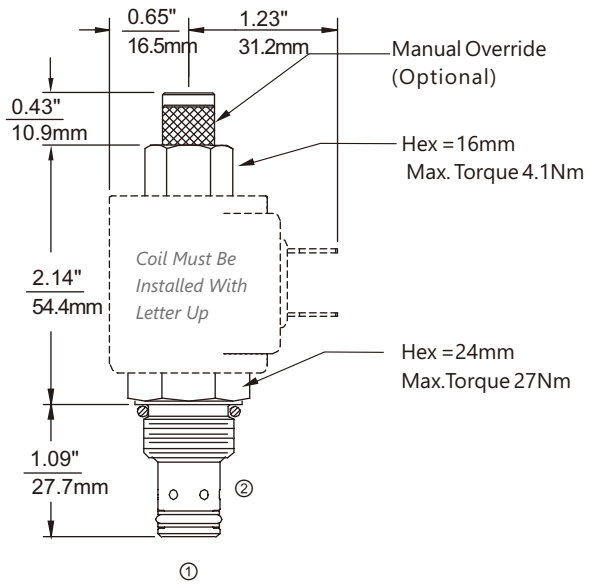
Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	3 drops/min.max. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

PRESSURE DROP VS.FLOW



SV5082NOP

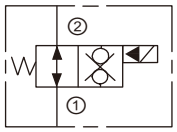
2-Way Solenoid Valve, Normally Open, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the poppet allows flow in both directions.
When energized, the valve blocks flow in both directions.

Manual Override Option *(SV5082NOPM)*

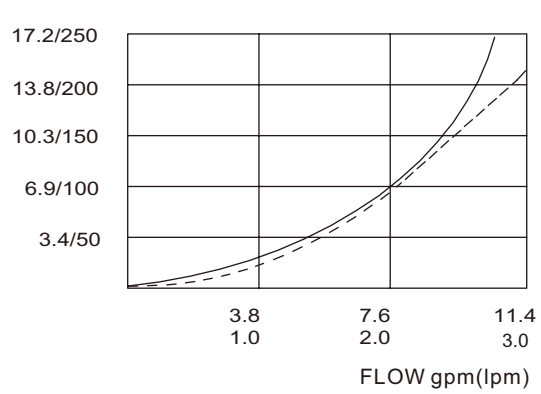
To override, push button in to activate. To return to normal valve function, release button..

SPECIFICATIONS

Max. Operating Pressure:	280bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	1 drops/min.max. at 280bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-2, See page I-A1

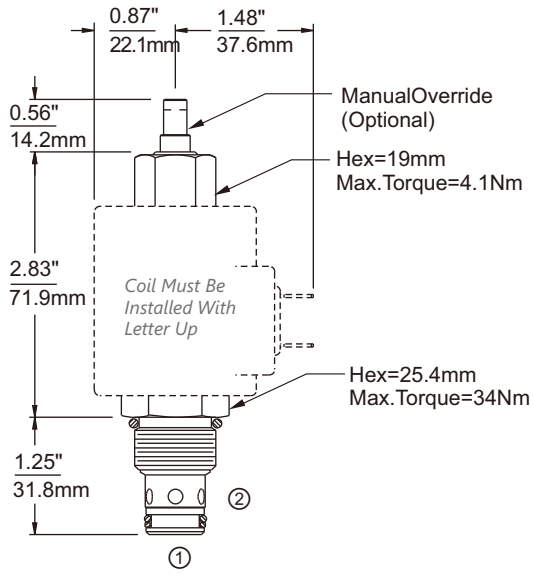
PRESSURE DROP VS.FLOW

② to ①(De-energized) ——
① to ②(Energized) - - - -
32cSt oil @ 40°C



SV5102NOP

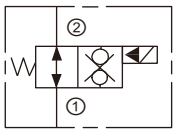
2-Way Solenoid Valve, Normally Open, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the poppet allows flow in both directions.
When energized, the valve blocks flow in both directions.

Manual Override Option *(SV5102NOPM)*

To override, push button in to activate. To return to normal valve function, release button..

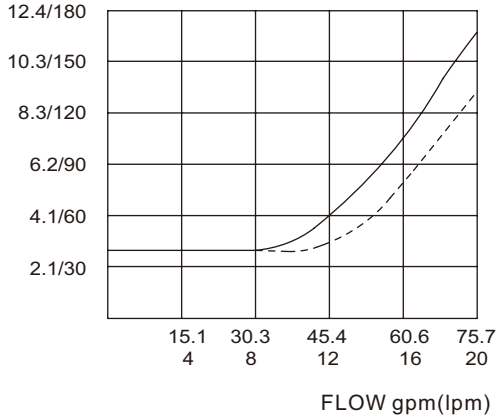
SPECIFICATIONS

Max. Operating Pressure:	300bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	5 drops/min.max. at 300bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	Filter 150Nom.micuron Effective From②To①Only
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

PRESSURE DROP VS.FLOW

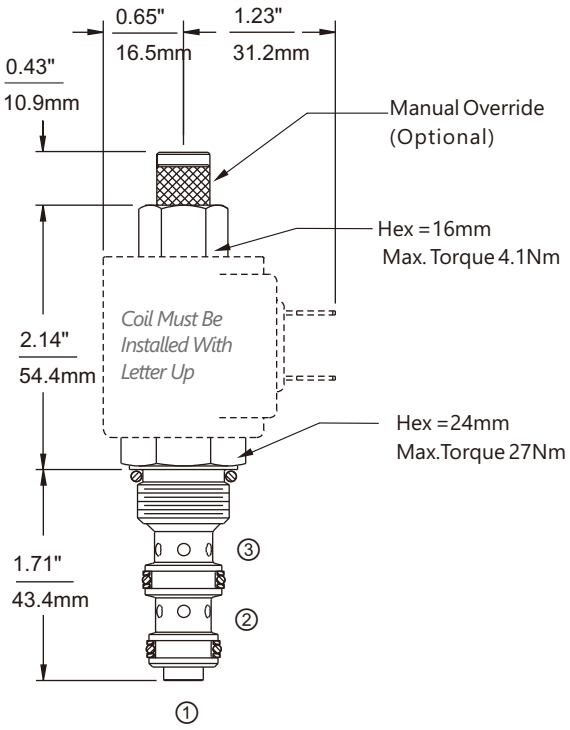
② to ①(De-energized) ——
① to ②(Energized) - - - -
32cSt oil @ 40°C

Pressure drop (bar/psi)



SV0830

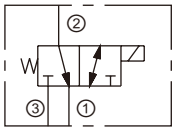
2-Way Solenoid Valve, Normally Open, Poppet-type



Unit

in
mm

SYMBOL



OPERATION

When de-energized, the valve allows flow from ② to ① ,while blocking flow at ③ .When energized, the cartridge's spool shifts to allow flow from ② to ③ , while blocking flow at ① .

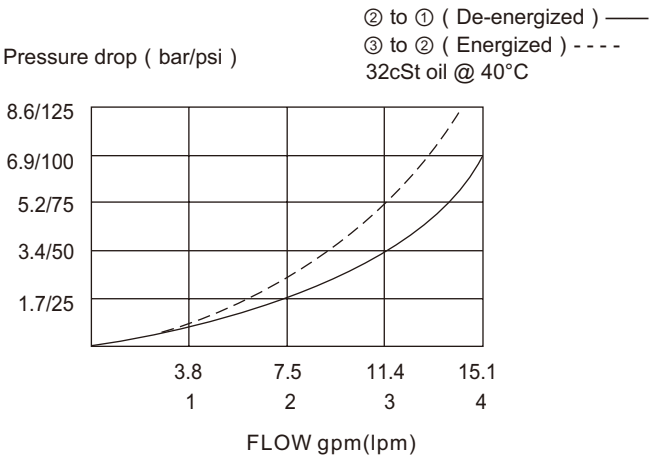
Manual Override Option *(SV0830M)*

To override, push button in, twist counterclockwise 180° and release. In this position, valve will remain detented in the shifted condition.
To return to normal operation, push button in, twist clockwise 180° and release. Override will be detented in this position.

SPECIFICATIONS

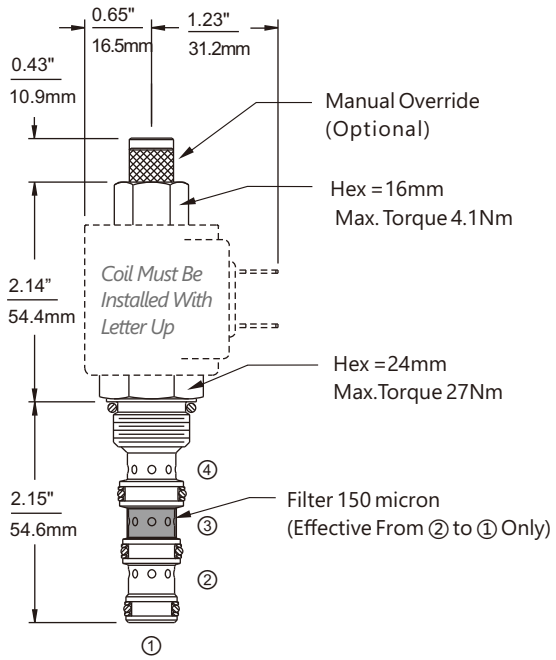
Max. Operating Pressure:	210bar
Flow:	See PERFORMANCE CHARACTERISTIC graph
Internal Leakage:	(per land)82cc/min.max. at 207bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-3, See page I-A1

PRESSURE DROP VS.FLOW



FSV08E

Directional Valve, 4-way 2-position



Unit

in
mm

OPERATION

When de-energized, the valve allows flow from③ to ② and from ④ to ① . When energized, the cartridge's spool shifts to allow flow from ③ to ④ and from ② to ① .

Operation of Manual Override

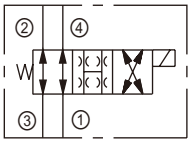
(FSV08EM)

To override, push button in, twist counterclockwise 180° and release. In this position,the valve will remain open in a detented condition. To return to normal operation, pushbutton in , twist clockwise 180° and release. Override will be detented in this position.

SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PRESSURE DROP VS.FLOW graph
Internal Leakage:	(per land)82cc/minmax. at 210bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-A2

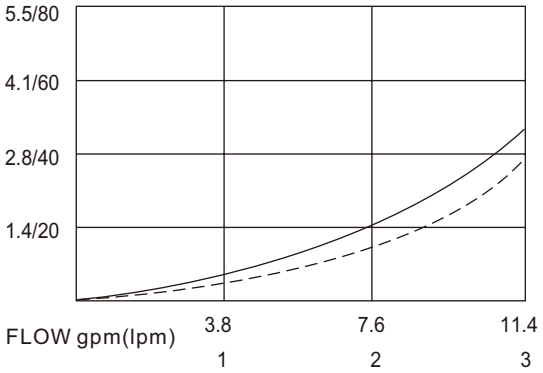
SYMBOL



PRESSURE DROP VS.FLOW

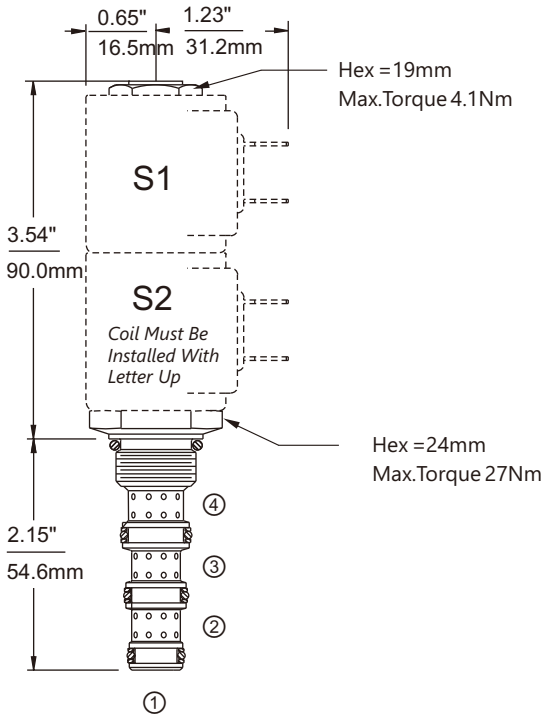
Pressure drop (bar/psi)

③to② : ——
④to① : ------
32cSt oil @ 40°C



FSV08M

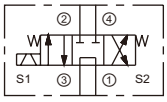
Directional Valve, 4-way 3-position, Tandem Center



Unit

in
mm

SYMBOL



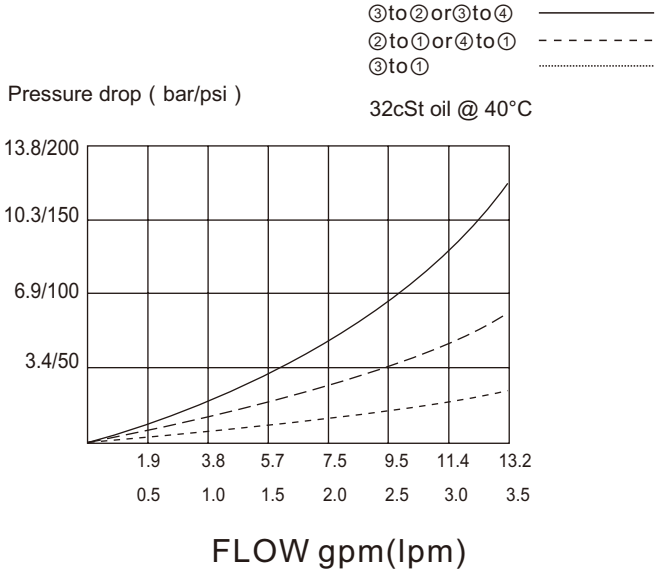
OPERATION

When de-energized, the valve allows flow from ③ to ① while blocking ② and ④ .When the coil S1 is energized, the valve allows flow from ④ to ① and from ③ to ② ;When the coil S2 is energized, the valve allows flow from ② to ① and from ③ to ④ .

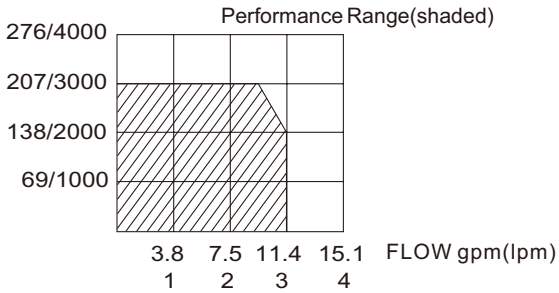
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PERFORMANCE CHARACTERISTIC graph.
Internal Leakage:	164cc/min.max
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-20

PRESSURE DROP VS.FLOW

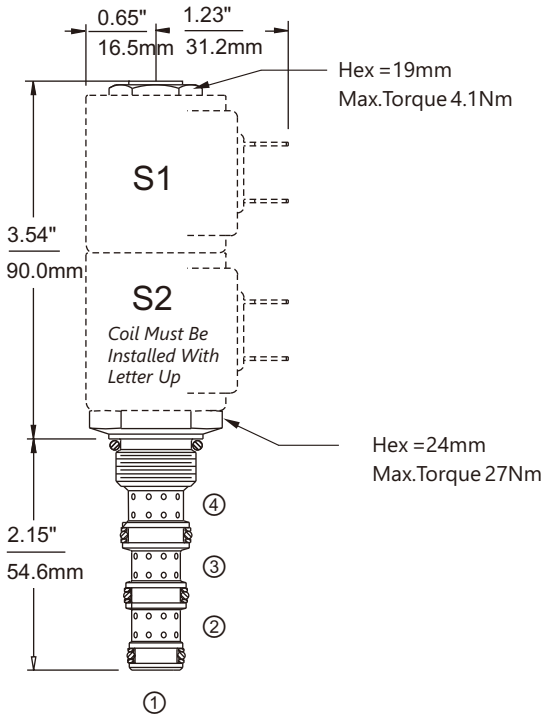


Pressure drop (bar/psi)



FSV08H

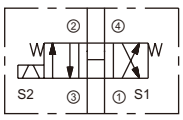
Directional Valve, 4-way 3-position,
Open Center



Unit

in
mm

SYMBOL



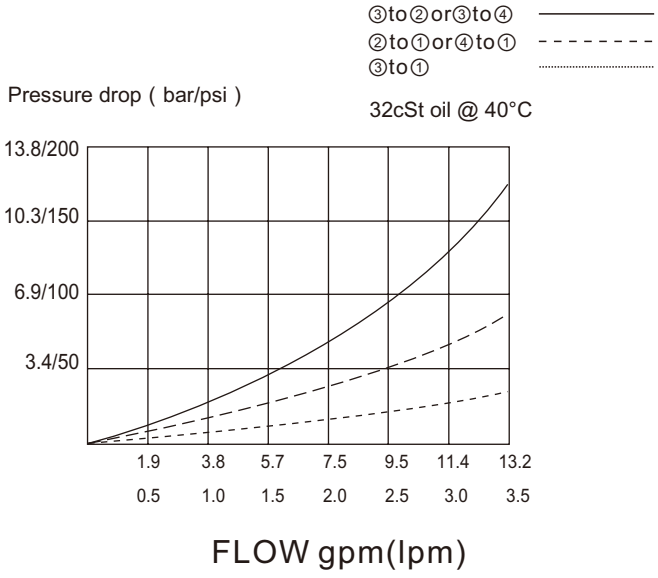
OPERATION

When de-energized, the valve allows flow at all ports. When the coil S1 is energized, the valve allows flow from ③ to ④ and from ② to ① ; When the coil S2 is energized,the valve allows flow from ③ to ② and from ④ to ① .

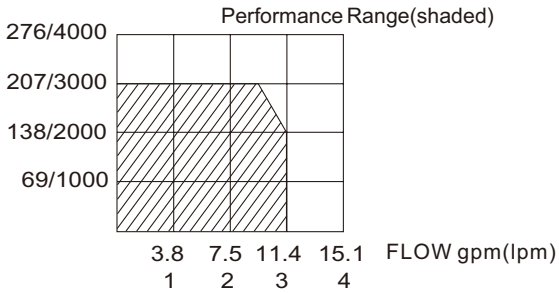
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PERFORMANCE CHARACTERISTIC graph.
Internal Leakage:	164cc/min.max
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-20

PRESSURE DROP VS.FLOW

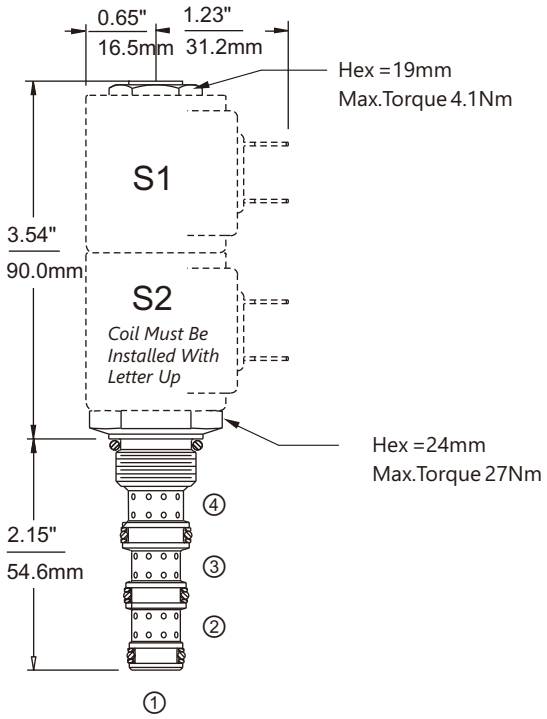


Pressure drop (bar/psi)



FSV08O

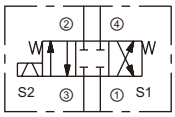
Directional Valve, 4-way 3-position, Closed Center



Unit

in
mm

SYMBOL



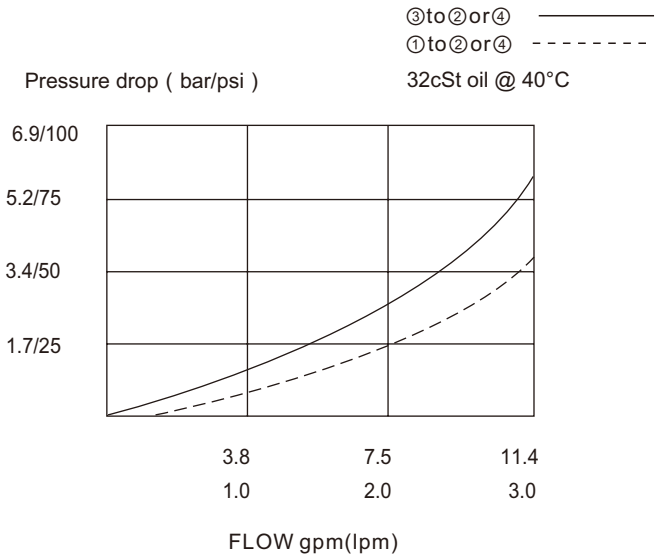
OPERATION

When de-energized, the valve blocks flow at all ports. When the coil S1 is energized, the valve allows flow from ③ to ④ and from ② to ①. When the coil S2 is energized, the valve allows flow from ③ to ② and from ④ to ① .

SPECIFICATIONS

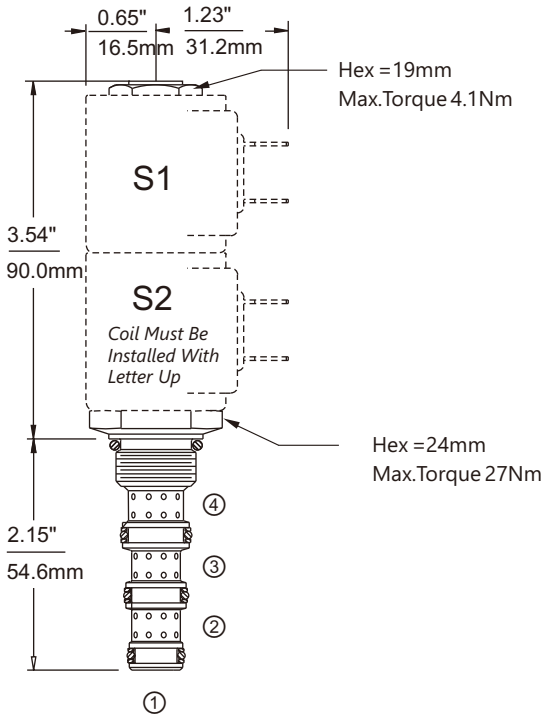
Max. Operating Pressure:	210bar
Flow:	See PERFORMANCE CHARACTERISTIC graph.
Internal Leakage:	164cc/min.max
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-A2

PRESSURE DROP VS.FLOW



FSV08Y

Directional Valve, 4-way 3-position,
Motor Center



OPERATION

When de-energized, the valve allows flow from ② to ① and from ④ to ① whileblocking ③. When the coil S1 is energized, the valve allows flow from ③ to ④ and from ② to ①. When the coil S2 is energized, the valve allows flow from ③ to ② and from ④ to ①.

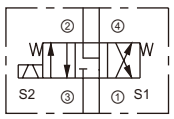
SPECIFICATIONS

Max. Operating Pressure:	210bar
Flow:	See PERFORMANCE CHARACTERISTIC graph.
Internal Leakage:	164cc/min.max
Temperature:	-40°F to +212°F(-40°C to +100°C)
Coil Duty Rating:	Continuous from 85% to 115% of nominal voltage
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	08-4, See page I-A2

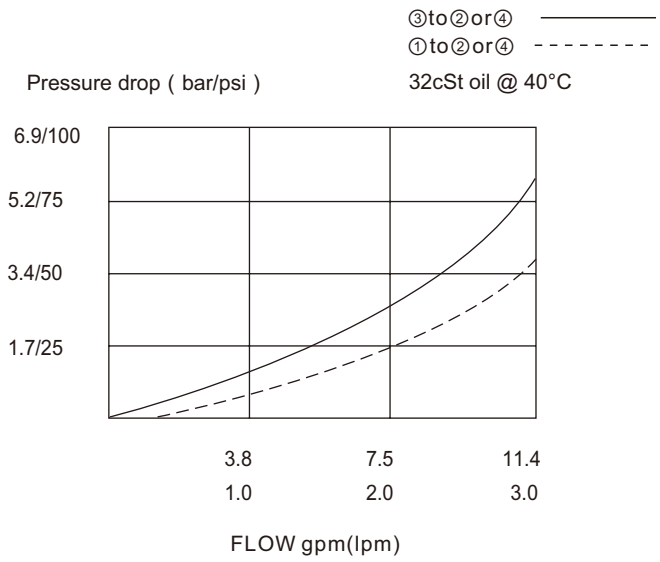
Unit

in
mm

SYMBOL

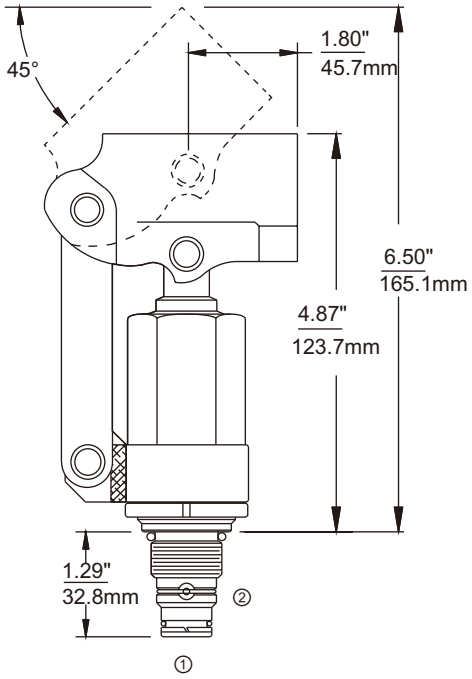


PRESSURE DROP VS.FLOW



CHP10-08

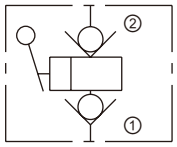
Hand Pump



Unit

in
mm

SYMBOL



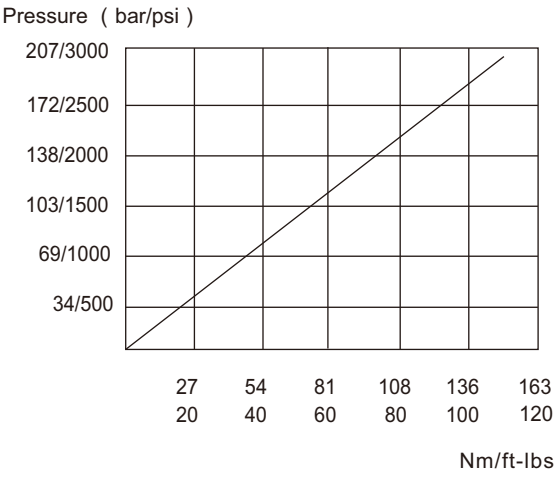
OPERATION

When the operator is pushed, the valve delivers a nominal flow of 8.8cc to the ② port.When the operator is pulled, the valve suctions fluid from the ① port.

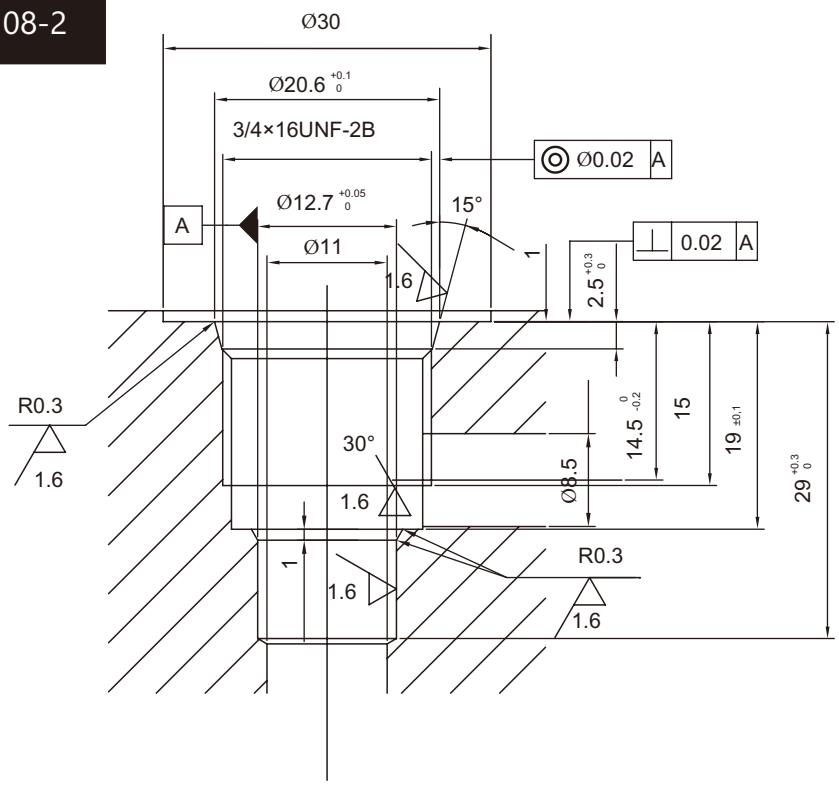
SPECIFICATIONS

Max. Operating Pressure:	210bar
Displacement:	8.8 cc per stroke
Internal Leakage:	2 drops/min. max. at 138 bar
Temperature:	-40°F to +212°F(-40°C to +100°C)
Filtration:	
Fluids:	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity:	10-2, See page I-A2

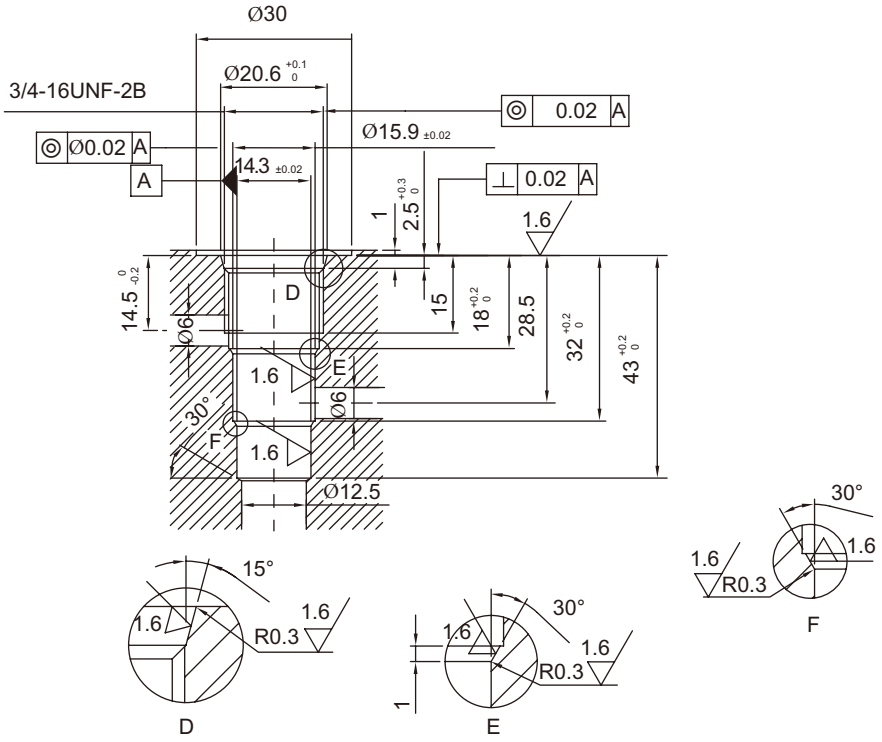
PRESSURE DROP VS.FLOW



Cavity 08-2

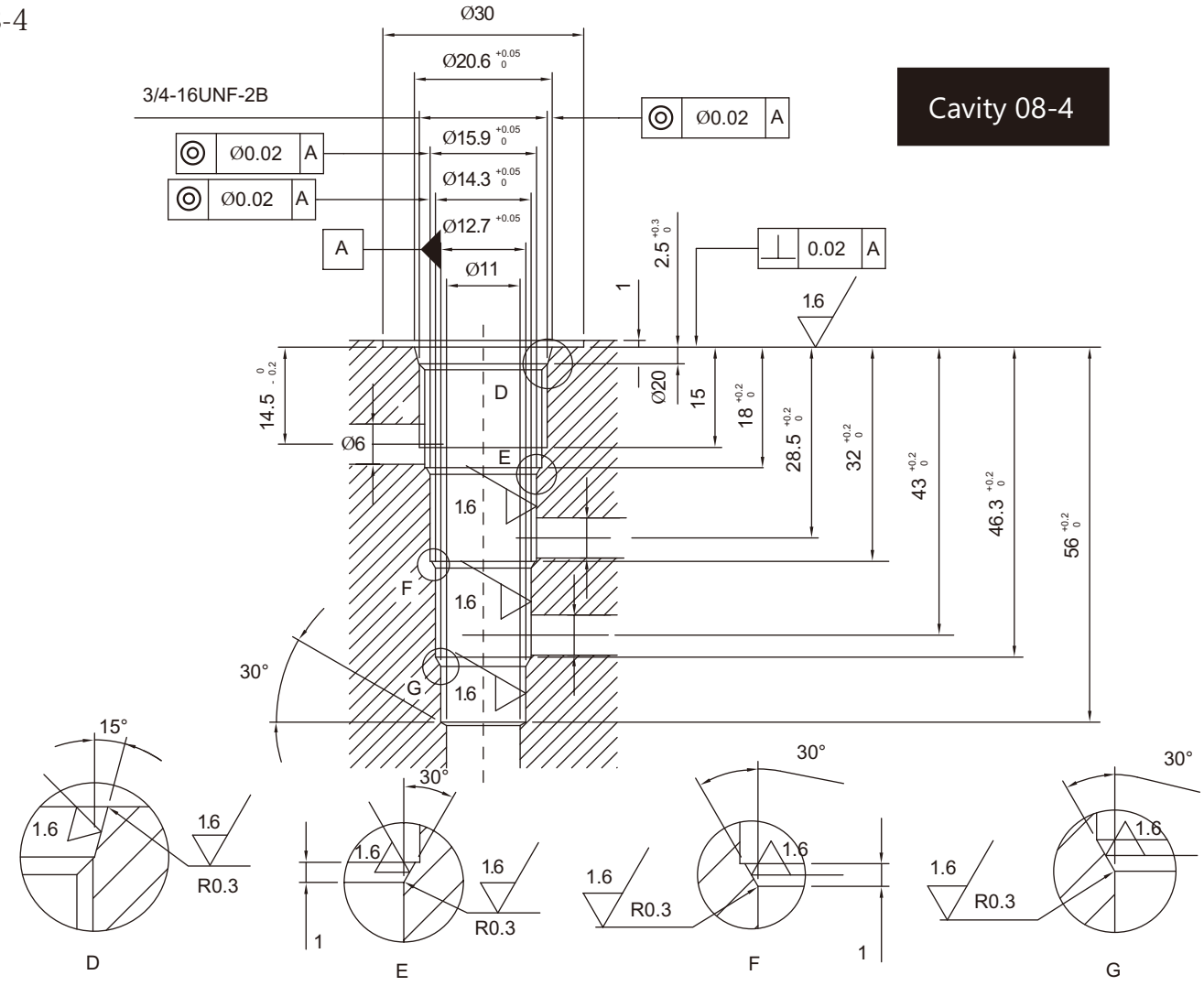


Cavity 08-3



08-4

Cavity 08-4



Cavity 10-2