

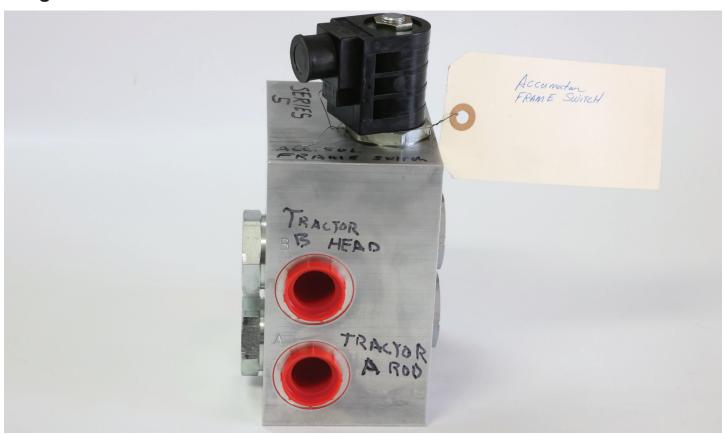
Series 5 - Exactrix® Mustang Flexing Toolbar

Steve Ford - Lead Designer GJS - Criteria Guidlines

Engineering Document Non-Public

- Accumulator Ride Control
- Positive Down Pressure
- Positive Tool Bar Lock, Smile Feature
- Three Section, Single SCV
- Five Section, Option, Dual SCV
- Feed Back Logic. Visual
- Feed Back Logic. Automatic





Tractor Hydraulic Line. Hydraulic Ports A + B



Inlet Checks



Outlet Accumulator Checks



Accumulator, Flow Divider, Head Tee To Cylinder

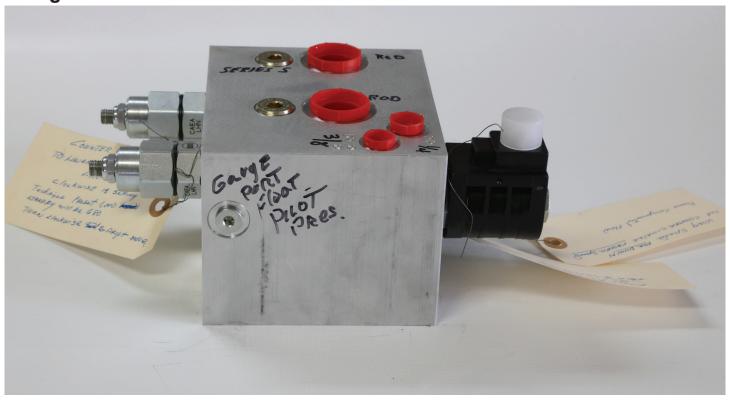


Solenoid, Frame Switch - Energize Accumulator

Second In Flow - Flow Divider



Flow Inlet From Accumulator



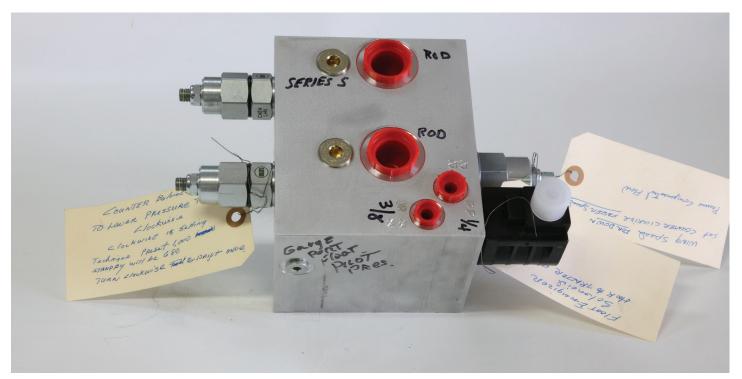
Gauge Port Float Pilot Pressure



Counter Balance Valves



Solenoid Float Energizer - Wing Speed Pressure Compensation Valve



Rod End Ports. Pilot Pressure, Power Beyond On Standby Supply DR, Case Drain

First In Flow - Accumulator Valve Blocks



Tractor Hydraulic Line. Hydraulic Ports A + B



Inlet Checks



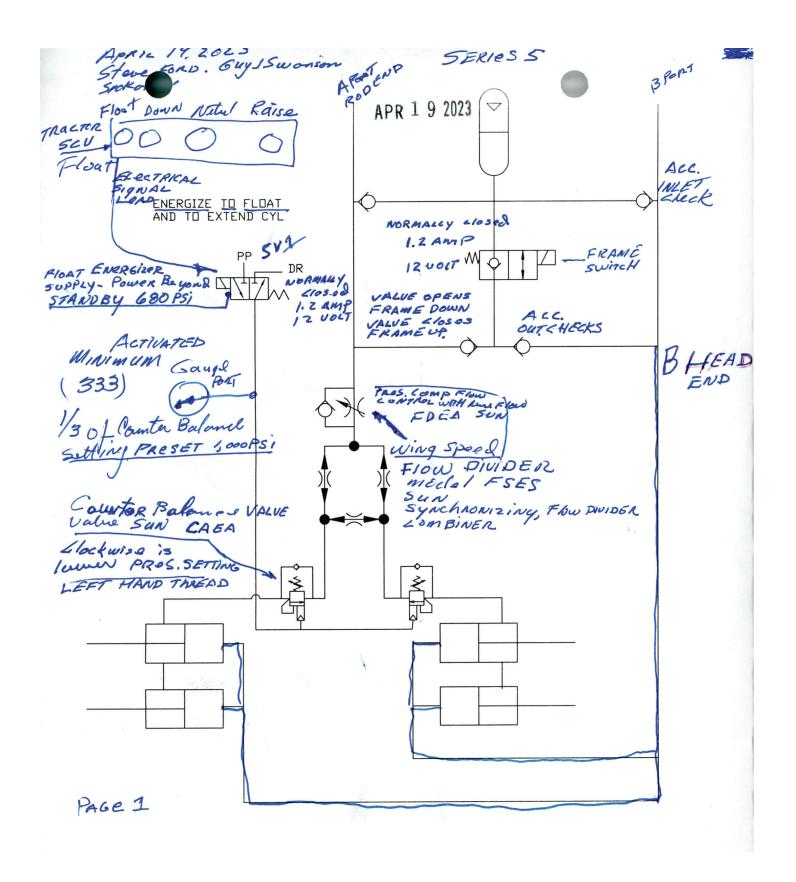
Outlet Accumulator Checks



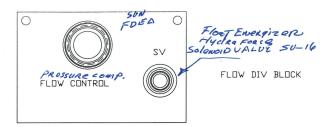
Acculmultor, Flow Divider, Head Tee To Cylinder

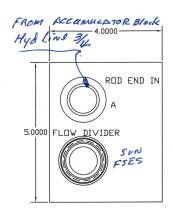


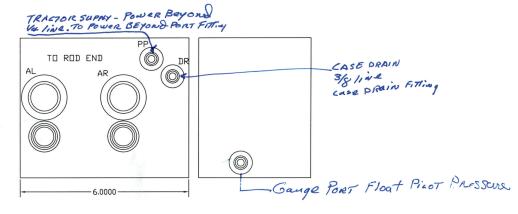
Solenoid, Frame Switch - Energize Accumulator

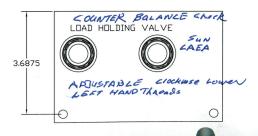


ACCIONNATOR Block, Flow 13 directed to the Flow Dividen Block Thru PORT A ... 3/khyd/ine.
Recieves Flow the tractors. SAE-oxing 16 SERIES 5. INSIDE WINGS 0 0 ACCUMULATOR Block ACC BLOCK SOLENDID CONTROL ZHECKS OF ACCUMULATOR INLET CHECKS 1.2 AMP. IZ USI+ FLOAT POSITION, ELECTRICAL CONVECTION 3.5000 HEAD TEE VECTION to Flow Div DEIZ BOOK TRACTOR A PORT, 3/4 line TRACTOR & PORT, 3/4 line SSCI 23/21 OUTLET CHECKS ACCUMULATORS 1 gallon 6.0000 Page Z

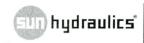








Page 3

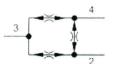


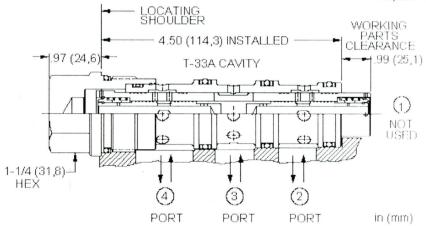
MODEL FSES Synchronizing, flow divider-combiner valve

SERIES 3 / CAPACITY: 6 - 30 gpm / CAVITY: T-33A



snhy.com/FS





Synchronizing flow divider/combiners are sliding-spool, pressure-compensated devices used to split flow in one direction and combine flow in the opposite direction. With a sychronizing feature, these valves can be used to allow two hydraulic cylinders to fully stroke and synchronize at the end of the stroke. When the first cylinder has reached the end of its stroke, a pressure-compensated, reduced flow is metered to or from the second cylinder until it also reaches the end of its stroke.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-33A
Series	3
Capacity	6 - 30 gpm
Maximum Operating Pressure	5000 psi
Divisional Accuracy at Minimum Input Flow	50% ±4.5%
Divisional Accuracy at Max Input Flow	50% ±2.5%
Pressure Drop at Minimum Rated Input Flow	30 psi
Pressure Drop at Maximum Rated Input Flow	350 psi
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Seal kit - Cartridge	Buna: 990033007
Seal kit - Cartridge	Polyurethane: 990033002
Seal kit - Cartridge	Viton: 990033006
Model Weight	1.44 lb.

CONFIGURATION OPTIONS

Model Code Example: FSESXAN

CONTROL (X) FLOW SPLIT

(A) SEAL MATERIAL

(N) MATERIAL/COATING

X Not Adjustable

A 50/50

N Buna-N V Viton Standard Material/Coating /AP Stainless Steel, Passivated

TECHNICAL FEATURES

- All flow divider and divider/combiner cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size).
- Operating characteristics cause the leg of the circuit with the greatest load to receive the higher percentage of flow in dividing mode. If a rigid mechanism is used to tie actuators together, the lead actuator may pull the lagging actuator and cause it to cavitate.
- In combining mode, compensating characteristics will cause the leg of the circuit with the lowest load to receive the higher percentage of flow. If a synchronization feature is not included, an additive accuracy error will be experienced with each full stroke of the actuator.
- In applications involving rigid mechanisms between multiple actuators, operating inaccuracy will cause the eventual lock-up of the system. If the mechanical structure is not designed to allow for the operating inaccuracy inherent in the valve, damage may occur.
- In motor circuits, rigid frames or mechanisms that tie motors together, and/or complete mechanical synchronized motion of the output shaft of the motors, either by wheels to the pavement or sprockets to conveyors, will contribute to cavitation, lock-up and/or pressure intensification.
- Variations in speed and lock-up can be attributed to differences in motor displacement, motor leakage, wheel diameter variance and friction of wheels on the driving surface.
- Extreme pressure intensification can occur on multiple wheel drive vehicles.
- The synchronization feature provides bi-directional static error correction.
- · Synchronization flow is approximately 15% of minimum rated input flow.
- · Divisional and combining accuracy are equal.
- . The synchronizing feature only comes into play when any one of the 3 ports is blocked. At that time, flow may occur between the other two ports.
- Below the minimum flow rating there is not enough flow for the valve to modulate. It is effectively a tee. If flow starts at zero and rises, there will be no dividing or combining control until the flow reaches the minimum rating.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES

Split	Inp	out Flow	Rated Accuracy	Maximum Possible Flow Variation
	Max Rated	30 gpm 120 L/min	±2.5%	14.2 - 15.8 gpm 57 - 63 L/min
50:50	Min	6 gpm	±4.5%	2.7 - 3.3 gpm
)	rated	23 L/min		10,5 - 12,5 L/min
	Synch	ronizing Flov	v	0,90 -1,75 gpm 3,4 - 6,6 L/min

The maximum possible variation is at 5000 psi (350 bar) differential between legs with the high pressure leg being the higher flow in dividing mode and the lower flow in combining mode.



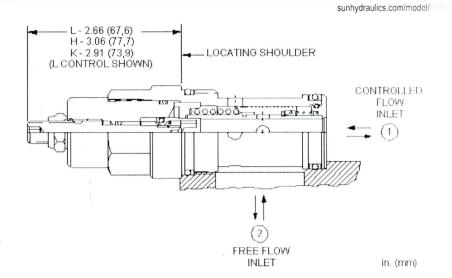
MODEL FDEA

Fully adjustable pressure compensated flow control valve with reverse flow check

SERIES 3 / CAPACITY: 25 gpm / CAVITY: T-16A







Fully adjustable, pressure-compensated flow controls with reverse-flow check provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. They are infinitely adjustable from nearly closed up to the maximum flow. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-16A
Series	3
Capacity	25 gpm
Maximum Operating Pressure	5000 psi
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990016007
Seal kit - Cartridge	EPDM: 990016014
Seal kit - Cartridge	Polyurethane: 990016002
Seal kit - Cartridge	Viton: 990016006
Model Weight	1.30 lb.

CONFIGURATION OPTIONS

Model Code Example: FDEALAN

CONTROL (L) ADJUSTMENT RANGE (A) SEAL MATERIAL (N) MATERIAL/COATING

H Calibrated Handknob with Detent Lock

B .2 - 16 gpm (0,8 - 60 L/min.)

N Buna-N E EPDM **V** Viton

/LH Mild Steel, Zinc-Nickel

Handknob

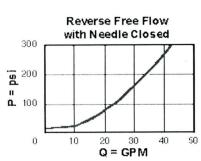
Y Tri-Grip Handknob

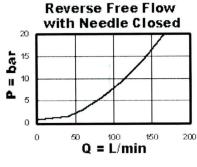
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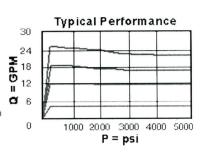
TECHNICAL FEATURES

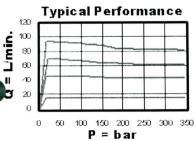
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge
 extension dimensions from the mounting surface may vary.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Minimum leakage is .2 gpm (0,8 L/min) when the adjustment mechanism is turned to the shut-off position.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.

PERFORMANCE CURVES

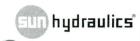








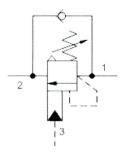
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MODEL CAEA 3:1 pilot ratio, vented counterbalance valve - atmospherically referenced

SERIES 2 / CAPACITY: 30 gpm / CAVITY: T-2A





3-Port Atmospherically Referenced

3.29(83.56) LOCATING SHOULDER PORTI INLET PORTI PILOT OUTLET

Atmospherically vented counterbalance valves with pilot assist are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Backpressure at port 2 does not affect the valve setting because the spring chamber is atmospherically referenced.

CONFIGURATION

(none) Material/Coating

L	Control	Standard Screw Adjustment
Н	Functional Setting Range	1000 - 4000 psi (70 - 280 bar), 3000 psi (210 bar) Standard Setting
N	Seal Material	Buna-N

Standard Material/Coating

Other names for this valve include motion control valve and over-center valve.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-2A
Series	2
Capacity	30 gpm
Pilot Ratio	3:1
Maximum Recommended Load Pressure at Maximum Setting	3075 psi
Maximum Setting	4000 psi
Factory Pressure Settings Established at	2 in³/min.
Maximum Valve Leakage at Reseat	5 drops/min.
Check Cracking Pressure	25 psi
Adjustment - No. of CCW Turns from Min. to Max. Setting	5
Operating Characteristic	Standard
Reseat	>85% of setting
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990302007
Seal kit - Cartridge	Viton: 990302006
Model Weight	0.83 lb.

CONFIGURATION OPTIONS

Model Code Example: CAEALHN

CONTROL

(L) FUNCTIONAL SETTING RANGE

(H) SEAL MATERIAL

(N) MATERIAL/COATING

L Standard Screw AdjustmentC Tamper Resistant - Factory Set

H 1000 - 4000 psi (70 - 280 bar), 3000 psi (210 bar) Standard Setting

N Buna-N V Viton Standard Material/Coating
/AP Stainless Steel, Passivated
/LH Mild Steel, Zinc-Nickel

 400 - 1500 psi (28 - 105 bar), 1000 psi (70 bar) Standard Setting

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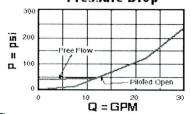
TECHNICAL FEATURES



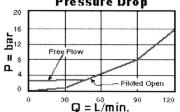
- Counterbalance valves should be set at least 1.3 times the maximum load induced pressure.
- Turn adjustment clockwise to decrease setting and release load.
- Full clockwise setting is 200 psi (14 bar).
- Approximately 1 drop (0,07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.
- Reseat exceeds 85% of set pressure when the valve is standard set. Settings lower than the standard set pressure may result in lower reseat percentages.
- Sun counterbalance cartridges can be installed directly into a cavity machined in an actuator housing for added protection and improved stiffness in the circuit.
- This valve has positive seals between all ports.
- With vented valves, a lower pilot ratio may be required to achieve machine stability compared to non-vented valves.
- Three-port vented valves are atmospherically referenced and considered problem solvers for existing circuits using non-vented valves. Over time, the vented valves may leak externally or allow moisture into the spring chamber. Four-port vented counterbalance valves are recommended for new applications.
- All 3-port counterbalance, load control, and pilot-to-open check cartridges are physically interchangeable (i.e. same flow path, same cavity for a given frame size).
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
 machining variations.

PERFORMANCE CURVES



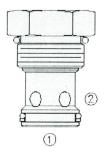


Free Flow and Piloted Open Pressure Drop





Overview



Description

The CV16-20X is a screw-in, cartridge style, hydraulic check valve for use as a blocking or load-holding device.

Operation

The CV16-20X allows flow passage from port 1 to port 2, while normally blocking oil flow in the opposite direction. The cartridge valve has a fully guided poppet which is spring biased closed until sufficient pressure is applied at port 1 to open to port 2.

Features

- Hardened seat for long life and low leakage.
- Optional bias springs for back-pressure application flexibility.
- · Industry-common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating

241 bar (3500 psi)

Flow Ratings

Flow rating

151 lpm (40 gpm)

Maximum internal leakage

0.25 ml/min (5 drops/min)

- Note: At 241 bar (3500 psi)

Temperature Ratings

Operating fluid temperature

-40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F)

- Note: With buna N seals - Note: With viton seals - Note: With polyurethane seals

Storage temperature

-54 to 107 °C (-65 to 225 °F) -40 to 70 °C (-40 to 160 °F)

Ambient temperature

-40 to 70 °C (-40 to 160 °F)

Operating Parameters

Fluids

Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range

7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

Properties

Unit weight

Internal wetted surface area

0.28 kg (0.61 lb) 0.39 kg (0.87 lb) - Note: (regular)

- Note: (tall adaptor for 225 psi spring)

- Note: (tall adaptor for 100 psi and 150 psi springs)

0.57 kg (1.25 lb)

170 cm² (26.3 in²) 229 cm² (35.5 in²)

- Note: (regular)

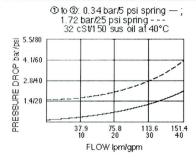
286 cm2 (44.4 in2)

- Note: (tall adaptor for 100 psi and 150 psi springs)

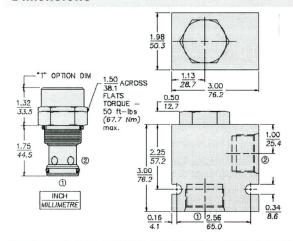
- Note: (tall adaptor for 225 psi spring)



Performance



Dimensions



Installation Specifications

Cavity

VC16-2

Cartridge installation torque

62.4 to 73.2 N-m (46 to 54 ft-lb)

Orientation restriction

None

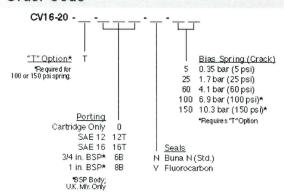
Accessories

Seal kit

SK16-2X-T

- Note: X = seal option

Order Code



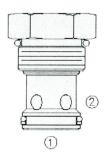
Model Options

CV16-20C-H-J-R

C Tall Cap



Overview



Description

The CV16-20X is a screw-in, cartridge style, hydraulic check valve for use as a blocking or load-holding device.

Operation

The CV16-20X allows flow passage from port 1 to port 2, while normally blocking oil flow in the opposite direction. The cartridge valve has a fully guided poppet which is spring biased closed until sufficient pressure is applied at port 1 to open to port 2.

Features

- · Hardened seat for long life and low leakage.
- Optional bias springs for back-pressure application flexibility.
- · Industry-common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating

241 bar (3500 psi)

Flow Ratings

Flow rating

151 lpm (40 gpm)

Maximum internal leakage

0.25 ml/min (5 drops/min)

- Note: At 241 bar (3500 psi)

- Note: With buna N seals

Temperature Ratings

Storage temperature

Operating fluid temperature

-40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F)

- Note: With viton seals - Note: With polyurethane seals

-40 to 70 °C (-40 to 160 °F)

Ambient temperature -40 to 70 °C (-40 to 160 °F)

Operating Parameters

Fluids

Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range

7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

Properties

0.28 kg (0.61 lb) Unit weight 0.39 kg (0.87 lb) - Note: (regular)

Note: (tall adaptor for 100 psi and 150 psi springs)
 Note: (tall adaptor for 225 psi spring)

0.57 kg (1.25 lb) Internal wetted surface area

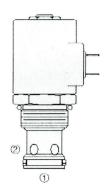
170 cm² (26.3 in²) 229 cm² (35.5 in²) 286 cm² (44.4 in²)

- Note: (regular)

- Note: (tall adaptor for 100 psi and 150 psi springs) - Note: (tall adaptor for 225 psi spring)



Overview



Description

A solenoid-operated, 2 port, normally closed, poppet-type, screw-in hydraulic cartridge valve, designed to function as a load-holding or blocking valve in applications requiring low internal leakage.

Operation

When de-energized, the SV16-20X acts as a check valve, allowing flow to pass from port 1 to port 2, while blocking flow in the reverse direction. When energized, the poppet lifts to open the port 2 to port 1 flow path. In this mode, flow from port 1 to port 2 is severely restricted.

Features

Continuous-duty rated coil. Hardened seat for long life and low leakage. Optional coil
voltages and terminations. Efficient wet-armature construction. Cartridges are voltage
interchangeable. Unitized, molded coil design. Manual override option. Optional
waterproof E-Coils rated up to IP69K. Industry-common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 241 bar (3500 psi)
Proof pressure 344 bar (5000 psi)
Burst pressure 779 bar (11300 psi)

Flow Ratings

Flow rating 227.4 lpm (60 gpm) - Note: Based on

34.4 bar (500 psi) - Note: Pressure drop, see performance graphs 5 drops/min - Note: At rated pressure

Maximum internal leakage 5 drops/min - Note: At rated pressure

Hysteresis per cent 5 % - Note: Maximum up to 60% of imax

10 % - Note: Maximum from 60% of imax up to imax

Temperature Ratings

Operating fluid temperature

-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)

- Note: With buna N seals
- Note: With fluorocarbon seals
- Note: With polyurethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F)

Ambient temperature -40 to 70 °C (-40 to 160 °F)

Other Ratings

Corrosion protection 960 hr salt spray per ASTM b117 (gsv16-20)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination 20/18/14 per ISO 4406

level

Properties

Unit weight 0.32 kg (0.71 lb)
Internal wetted surface area 221 cm² (34.2 in²)

SV16-20



Electrical Parameters

Valve inductance

166 mH

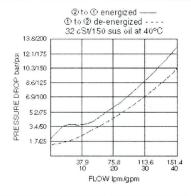
Maximum control current

1.2 A - Note: For coil 12 Vdc 0.4 A - Note: For coil 12 Vdc

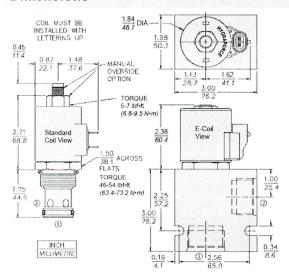
Threshhold current
Dither PWM frequency

100 to 400 Hz

Performance



Dimensions



Installation Specifications

Cavity

VC16-2

Cartridge installation torque

62.4 to 73.2 N-m (46 to 54 ft-lb)

Maximum allowable torque

169 N-m (125 ft-lb)

Orientation restriction

None

Accessories

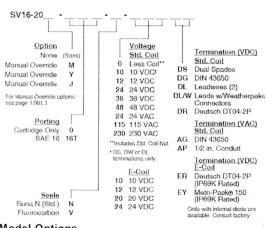
Seal kit

SK16-2X-T

- Note: X = seal option

Order Code





Model Options

SV16-20E-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
J	Momentary Pull Override, #10-32 threads
M	Two Position Override, Red Knurled Knob
Υ	Momentary Pull Override, Red Knurled Knob

H Line Body

CODE	DESCRIPTION
0	No Body

U	NO Body
12T	Aluminum SAE 12
16T	Aluminum SAE 16
12TD	Ductile Iron SAE 12
16TD	Ductile Iron SAE 16
6B	Auminum BSPP 3/4" (6)
8B	Auminum BSPP 1" (8)
8BD	Ductile Iron BSPP 1" (8)

J Seal

CODE DESCRIPTION

Ν	Buna-N
V	Fluorocarbor
Р	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil
10DG	10 VDC, D-Coil, DIN 43650
10DL	10 VDC, D-Coil, Dual Lead Wires
10DR/D	10 VDC, D-Coil, Deutsch with Diode
10DS	10 VDC, D-Coil, Dual Spade

hydraforce.com

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SV16-20



0005	PERCHAPION
CODE	DESCRIPTION
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
12DG	12 VDC, D-Coil, DIN 43650
12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
12DR	12 VDC, D-Coil, Deutsch
12DR/D	12 VDC, D-Coil, Deutsch with Diode
12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
12DS	12 VDC, D-Coil, Dual Spade
12EG	12 VDC, E-Coil, DIN 43650
12EJ	12 VDC, E-Coil, AMP Jr.
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12EY	12 VDC, E-Coil, Metri-Pack 150
12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
20DR/D	20 VDC, D-Coil, Deutsch with Diode
20DS	20 VDC, D-Coil, Dual Spade
20ER	20 VDC, E-Coil, Deutsch
24AG	24 VDC, D-Coil, DIN 43650
24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DG	24 VDC, D-Coil, DIN 43650
24DL	24 VDC, D-Coil, Dual Lead Wires
24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
24DL/W/D	24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DR	24 VDC, D-Coil, Deutsch
24DR/D	24 VDC, D-Coil, Deutsch with Diode
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode



SOLENOID VALVE POPPET, 2 PORT, NORMALLY CLOSED



CODE	DESCRIPTION
24EY	24 VDC, E-Coil, Metri-Pack 150
24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
36DS	36 VDC, D-Coil, Dual Spade
115AG	115 VAC, D-Coil, DIN 43650
115AP	115 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
230AG	230 VAC, D-Coil, DIN 43650
230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires

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FMTB-45 Tool Bar Gangwish Seed Farm

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