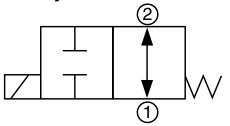
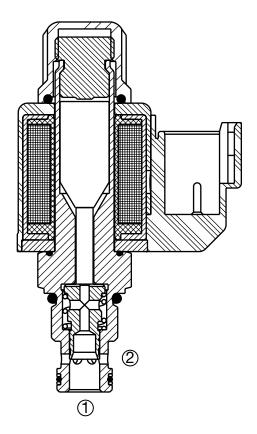
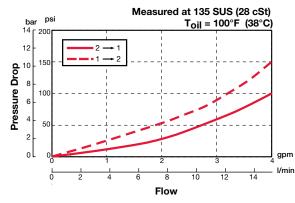
WK06V-01 Spool Type, Normally Open, Direct Acting Up to 4 gpm (15.2 lpm) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 2-way, 2 position, normally open, direct acting, spool type, intended for use as a bi-directional flow blocking valve.

Operation

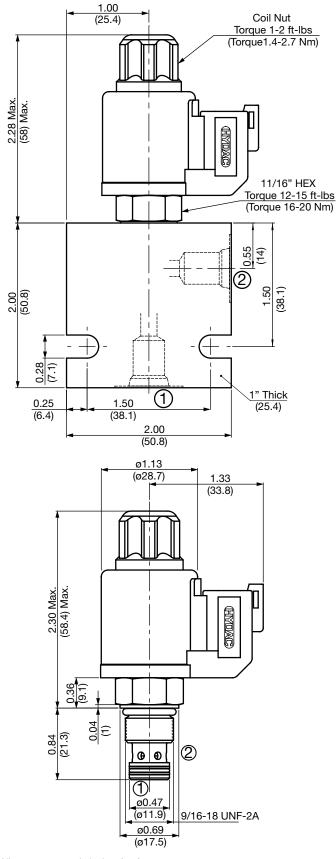
When de-energized the WK06V allows bi-directional flow. When energized the spool shifts and blocks flow in both directions.

Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

Specifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	See Operating Limits
Internal Leakage	5.5 cu in/min at 3600 psi and 135 SUS (90cc/min at 248 bar at 28cSt)
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC
Min. Pull-in Current to Operate Valve	80% of nominal amperage
Typical Response Time (Varies with Pressure and Flow)	Energized 50ms De-energized 35ms
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC06-2 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02582046 Finisher: 02582047
Cartridge Weight	0.17 lb (0.08 kg)
Coil Weight	0.19 lb (0.09 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.
Seal Kits Buna-N Viton®	FS062-N P/N: 02610184 FS062-V P/N: 02610185



All measurements in inches (mm). Subject to technical modifications

Model Code

WK06V-01 M-C-N-24 DN

Valve Mo	del	
Override	Ор	tion
blank	(=	No manual override
М	=	Manual override, push type
Body & P	ort	s
Ċ	=	Cartridge only
AS4	=	SAE-4 Ports, aluminum body
SS4	=	SAE-4 Ports, steel body
Seals —		

S N

= Buna-N V Viton® =

Coil Voltage

 No coil, cartridge only 0

- DC 12 12 VDC =
- _24 = 24 VDC
- AC 115 = 105 VAC (only available with connector DG)
 - 230 = 205 VAC (only available with connector DG)

(All model 32-1329 coils are DC. AC models require an external diode bridge mounted outside the coil)**

Coil Connector

- DCDG = DIN 43650 Form B (IP65 Rated)**
 - = Leadwires (2)18" long (46 cm) AWG18, TYPE UL 1815 DL (IP69K Rated)*
 - = Deutsch DT04-2P intergral molded (IP69K Rated)* DN

Use mating plug DIN 43650 form B without diode bridge for DC voltages P/N 02600570

Use mating plug DIN 43650 form B w/diode bridge for

AC voltages P/N 02600582

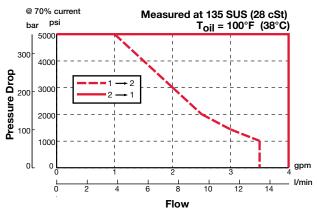
Coil Model 32-1329

For other coil connector types consult factory

**Mating Plugs sold separately

*Coils with internal Transient Suppression diode are available, consult factory.

Operating Limits

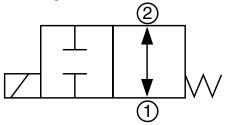


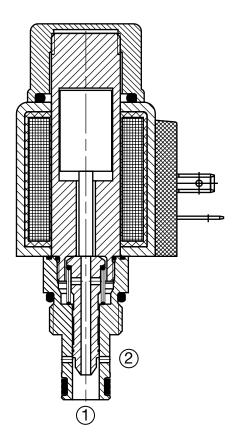
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH062-AS4	02600491	Aluminum, anodized	3500 psi (245 bar)	0.34 lbs (0.15 kg)
FH062-SS4	02600490	Steel, zinc plated	6000 psi (420 bar)	1.0 lbs (0.45 kg)

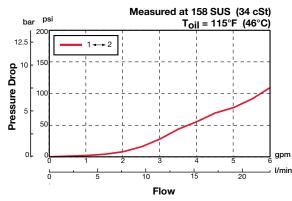
WK08V-01 Spool Type, Normally Open, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 2-way, 2 position, normally open, direct acting, spool type, intended for use as a bi-directional flow blocking valve.

Operation

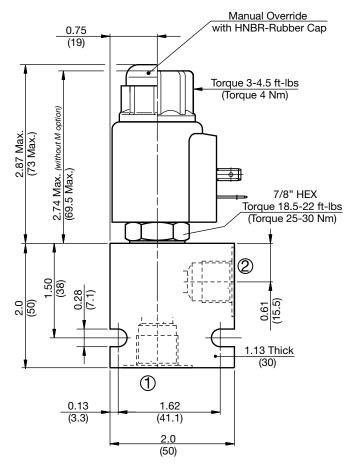
When de-energized the WK08V allows bi-directional flow. When energized the spool shifts and blocks flow in both directions.

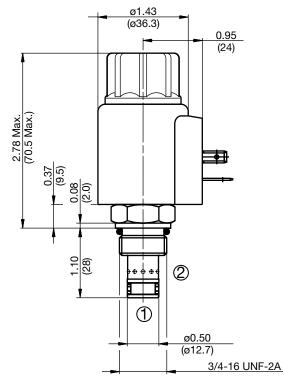
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opcomoutions	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm (19 l/min)
Internal Leakage	5.5 cu in/min. at 3000 psi and 158 SUS (90 cc/min at 210 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.
Installation	No orientation restrictions
Cavity	FC08-2 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580090 Finisher: 02580091
Cartridge Weight	0.38 Lbs. (0.17 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS082-N P/N: 03033920 FS082-V P/N: 03051756





All measurements in inches (mm). Subject to technical modifications

Model Code

WK08V-01 M-C-N-24 DN

	<u></u>
Valve Model	
Override Op	tion
blank =	No manual override
M =	Manual override, push type
Body & Ports	S
C =	Cartridge only
AS6 =	SAE-6 Ports, aluminum body
SS6 =	SAE-6 Ports, steel body
Seals ——	
N =	Buna-N
V =	Viton®
Coil Voltage	

С 0 = No coil, cartridge only

- DC 12 = 12 VDC
 - 24 = 24 VDC
 - 36 = 36 VDC
 - 110 = 110 VDC (only available with connector DG)

AC 24 = 24 VAC

115 = 115 VAC (AC coils internally full wave rectified) 230 = 230 VAC

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer[™], molded, radial mount* DT
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

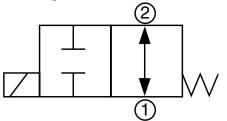
Code	Part No	Material	Pressure Rating	Weight
FH082-AS6	03011409	Aluminum, anodized	3500 psi (245 bar)	0.34 lbs (0.15 kg)
FH082-SS6	00560917	Steel, Zinc plated	6000 psi (420 bar)	1.0 lbs (0.45 kg)

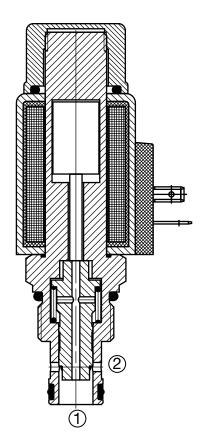
*Please refer to Line Bodies & Cavities section for details

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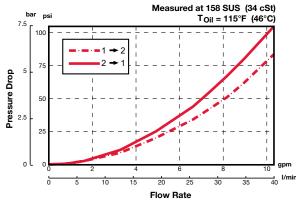
WK10V-01 Spool Type, Normally Open, Direct Acting Up to 9 gpm (35 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 2-way, 2 position, normally open, direct acting, spool type, intended for use as a bi-directional flow blocking valve.

Operation

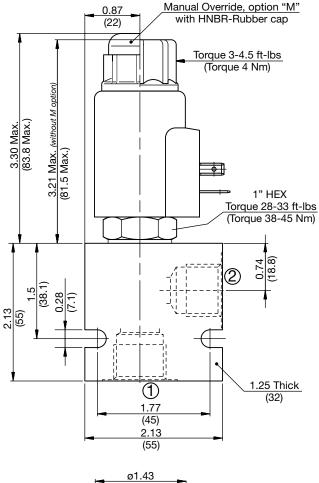
When de-energized the WK10V allows bi-directional flow . When energized the spool shifts and blocks flow in both directions.

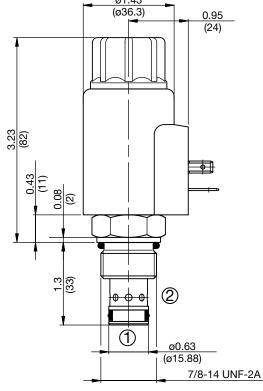
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opeemeations		
Operating Pressure	5000 psi (350 bar)	
Nominal Flow	9 gpm (35 l/min)	
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)	
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)	
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)	
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage	
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC	
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)	
Fluid Compatibility	Mineral-based or synthetics with lubricating properties	
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)	
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated ß10 ≥ 200.	
Installation	No orientation restrictions	
Cavity	FC10-2 (see Line Bodies & Cavities section)	
Cavity Tools	Rougher: 02580274 Finisher: 02580247	
Cartridge Weight	0.48 Lbs. (0.22 kg)	
Coil Weight	0.51 Lbs. (0.23 kg)	
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.	
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.	
Seal Kits Buna-N Viton®	FS102-N P/N: 03033872 FS102-V P/N: 03051757	





All measurements in inches (mm). Subject to technical modifications

Model Code

0 ...)N

	••		
Ove			tion
	blank	(=	No manual override
	М	=	Manual override, push type
Bod	v & P	ort	s
			Cartridge only
			SAE-8 Ports, aluminum body
			SAE-8 Ports, steel body
Seal	c		
Sea	-	_	Buna-N
	••		Viton [®]
	-		
Coil			
	0		No coil, cartridge only
DC			12 VDC
			24 VDC
			36 VDC
L	110	=	110 VDC (only available with connector DG)
AC	24	=	24 VAC
	115	=	115 VAC (AC coils internally full wave rectified)
			230 VAC

- DC DG = EN 175301-803-A
 - = Dual spade (SAEJ858a)* DS
 - DL
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DW
 - DN
 - DT = Amp Junior Timer[™], molded, radial mount*
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

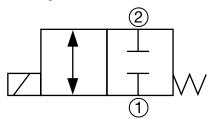
*Coils with internal diode are available, consult factory.

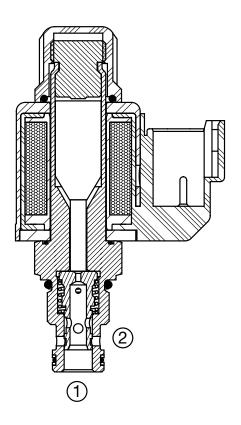
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH102-AS8	03037778	Aluminum, anodized	3500 psi (245 bar)	0.40 lbs (0.18 kg)
FH102-SS8	03037612	Steel, Zinc plated	6000 psi (420 bar)	1.16 lbs (0.53 kg)

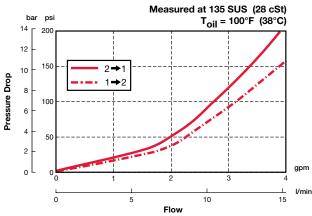
WK06W-01 Spool Type, Normally Closed, Direct Acting Up to 2.5 gpm (9.5 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



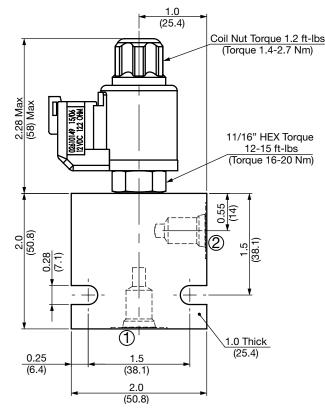
Description

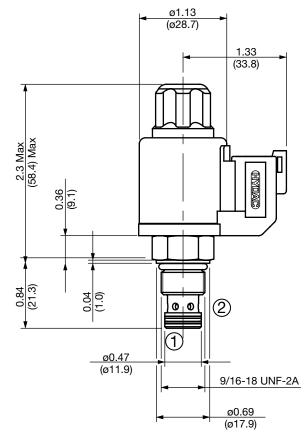
A screw-in cartridge, solenoid operated, 2-way, 2 position, direct acting, spool type valve.

Operation

When de-energized the WK06W blocks flow in both directions. When energized the spool shifts and opens the bidirectional flow path.

opcomoutions	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	2.5 gpm (9.5 l/min)
Internal Leakage	5.5 cu in/min. at 3000 psi and 135 SUS (90 cc/min at 207 bar and 28 cSt)
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C)
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC
Min. Pull-in Current to Operate Valve	70% of nominal amperage
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC06-2 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02582046 Finisher: 02582047
Cartridge Weight	2.7 oz (75 grams)
Coil Weight	3.1 oz (88 grams)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation
Seal Kits Buna-N Viton [®]	FS062-N P/N: 02610184 FS062-V P/N: 02610185





All measurements in inches (mm). Subject to technical modifications

Model Code

WK06W-01 M-C-N-24-DN Valve Model **Override Option** blank = No manual override = Manual override, push type Μ (for availability consult factory) Body & Ports С = Cartridge only AS4 = SAE-4 Ports, aluminum body = SAE-4 Ports, steel body SS4 Seals = Buna-N Ν Viton® V = **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC 105 VDC (only available with connector DG) AC 115 = = 205 VDC (only available with connector DG) 230 (All model 32-1329 coils are DC. AC models require an external diode bridge mounted outside the coil)*' **Coil Connector** DG = EN 175301-803-B (IP65 Rated)** DC DL =

- DL = Leadwires (2) 18" long (46 cm) AWG18, TYPE UL 1815 (IP69K Rated)*
- DN = Deutsch DTO4-2P intergral molded (IP69K Rated)* Use mating plug EN 175301-803-B without diode bridge for

DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

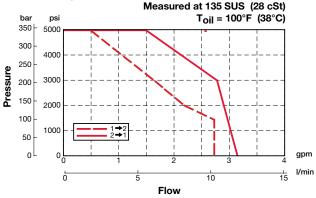
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits



Standard Line Bodies*

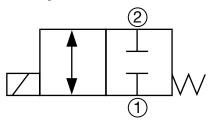
Code	Part No	Material	Pressure Rating	Weight
FH062-AS4	02600491	Aluminum, anodized	3500 psi (245 bar)	0.33 lbs (0.15 kg)
FH062-SS4	02600490	Steel, Zinc plated	6000 psi (420 bar)	0.97 lbs (0.44 kg)

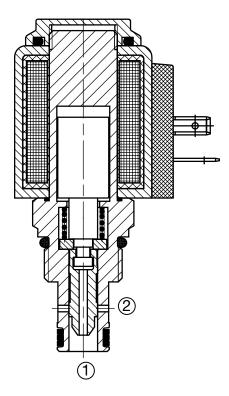
*Please refer to Line Bodies & Cavities section for details

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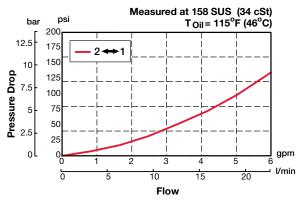
WK08W-01 Spool Type, Normally Closed, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 2-way, 2 position, normally closed, direct acting, spool type, intended for use as a bi-directional flow blocking valve.

Operation

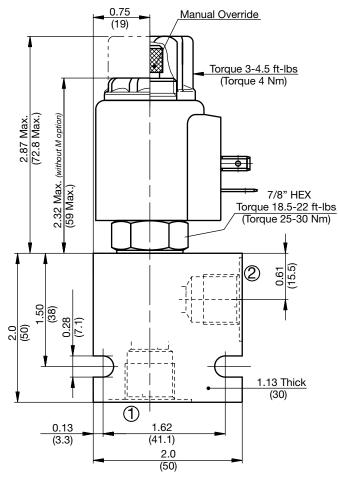
When de-energized the WK08W blocks flow in both directions. When energized the spool shifts and opens the bidirectional flow path.

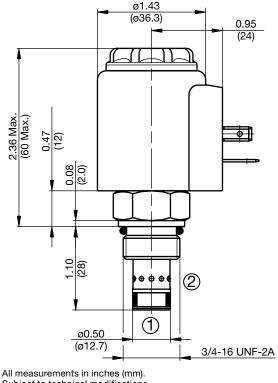
Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override option

opcomoutions	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm (19 l/min)
Internal Leakage	5.5 cu in/min. at 3000 psi and 158 SUS (90 cc/min at 210 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.
Installation	No orientation restrictions
Cavity	FC08-2 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580090 Finisher: 02580091
Cartridge Weight	0.38 Lbs. (0.17 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS082-N P/N: 03033920 FS082-V P/N: 03051756





Subject to technical modifications

Model Code

DN

	<u>WK08W-01</u> <u>M</u> - <u>C</u> - <u>N-24</u> <u>D</u>
Valve Model	
	tion No manual override Manual override, screw type
AS6 = SS6 = Seals N =	s Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body Buna-N Viton®
Coil Voltage 0 = DC 12 = 24 = 36 =	No coil, cartridge only
	24 VAC 115 VAC (AC coils internally full wave rectified) 230 VAC

Coil Connector -

- DC DG = EN 175301-803-A
 - DS = Dual spade (SAEJ858a)*
 - DL
 - DW
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - DT Amp Junior Timer[™], molded, radial mount* =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

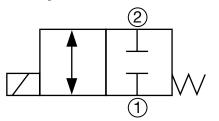
Code	Part No	Material	Pressure Rating	Weight
FH082-AS6	03011409	Aluminum, anodized	3500 psi (245 bar)	0.33 lbs (0.15 kg)
FH082-SS6	00560917	Steel, Zinc plated	6000 psi (420 bar)	1.0 lbs (0.45 kg)

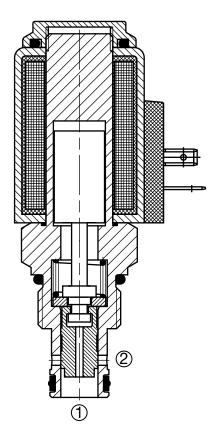
*Please refer to Line Bodies & Cavities section for details

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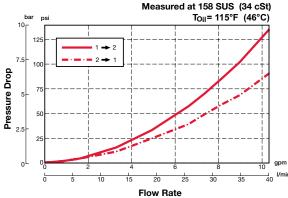
WK10W-01 Spool Type, Normally Closed, Direct Acting Up to 9 gpm (35 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 2-way, 2 position, normally closed, direct acting, spool type, intended for use as a bi-directional flow blocking valve.

Operation

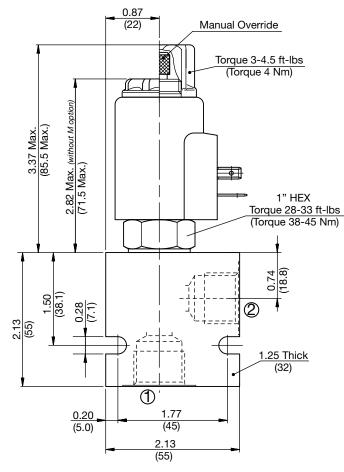
When de-energized the WK10W blocks flow in both directions. When energized the spool shifts and opens the bidirectional flow path.

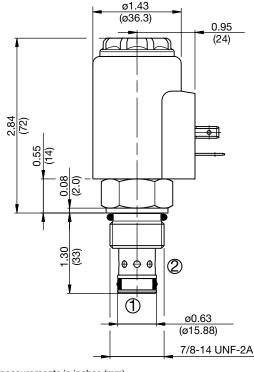
Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override option

Specifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	9 gpm (35 l/min)		
Internal Leakage	7.3 cu in/min. at 5000 psi and 158 SUS (120 cc/min at 350 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.		
Installation	No orientation restrictions		
Cavity	FC10-2 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580274 Finisher: 02580247		
Cartridge Weight	0.48 Lbs. (0.22 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton [®]	FS102-N P/N: 03033872 FS102-V P/N: 03051757		





All measurements in inches (mm). Subject to technical modifications

Model Code

V

	<u>WK10W-01 M-C-N-24</u>
Valve Mod	
Override (•
	No manual overrideManual override, screw type
Body & Po	orts
	 Cartridge only SAE-8 Ports, aluminum body SAE-8 Ports, steel body
	= Buna-N = Viton®
Coil Volta	ge
24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
115	 = 24 VAC = 115 VAC (AC coils internally full wave rectified) = 230 VAC

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - DW
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - DT = Amp Junior Timer[™], molded, radial mount*
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

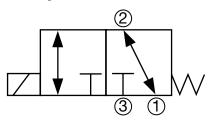
*Coils with internal diode are available, consult factory.

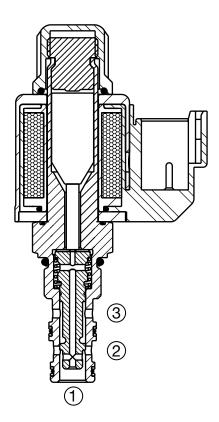
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH102-AS8	03037778	Aluminum, anodized	3500 psi (245 bar)	0.40 lbs (0.18 kg)
FH102-SS8	03037612	Steel, Zinc plated	6000 psi (420 bar)	1.16 lbs (0.53 kg)

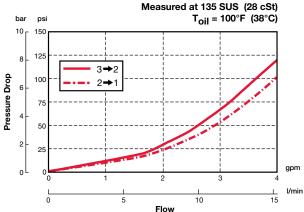
WK06C-01 Spool Type, Direct Acting Up to 4 gpm (15 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



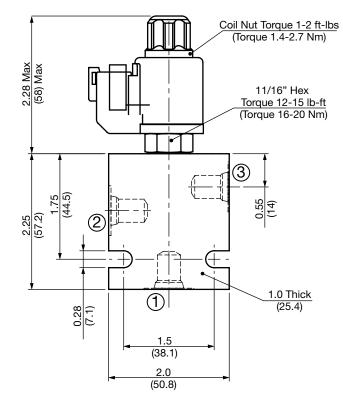
Description

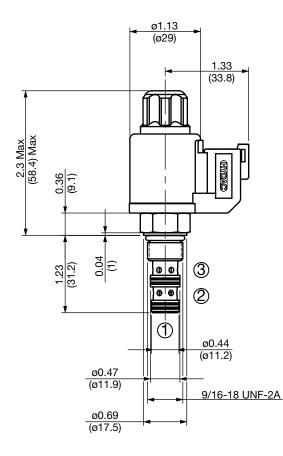
A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

When de-energized the WK06C allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally, while blocking flow at port 1.

opeemeatione	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	4 gpm (15 l/min)
Internal Leakage	5.5 cu in/min. at 3000 psi and 135 SUS (90 cc/min at 207 bar and 28 cSt)
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C)
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC
Minimum Pull-in Current to Operate Valve	70% of nominal amperage
Typical Response Time (Varies with Pressure and Flow)	On: 30 to 60 ms Off: 20 to 40 ms
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC06-3 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02582050 Finisher: 02582051
Cartridge Weight	3.0 oz (85 grams)
Coil Weight	3.1 oz (88 grams)
Cartridge Material	Steel with hardened work surfaces. Zinc plated solenoid tube surface. Buna N or Viton® o-rings Solid thermoplastic polyester back-up rings.
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation
Seal Kits Buna-N Viton®	FS063-N P/N: 02610186 FS063-V P/N: 02610187





All measurements in inches (mm). Subject to technical modifications

Model Code

WK06C-01 M-C-N-24 DN Valve Model **Override Option** blank = No manual override = Manual override, push type Μ (for availability consult factory) **Body & Ports** С = Cartridge only AS4 = SAE-4 Ports, aluminum body = SAE-4 Ports, steel body SS4 Seals = Buna-N Ν = Viton® V **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC = 105 VDC (only available with connector DG) AC 115 = 205 VDC (only available with connector DG) 230 (All model 32-1329 coils are DC. AC models require an external diode bridge mounted outside the coil)** **Coil Connector** DG = EN 175301-803-B (IP65 Rated)** DC

- C DL = Leadwires (2) 18" long (46 cm) AWG18, TYPE UL 1815 (IP69K Rated)*
- DN = Deutsch DT04-2P integral molded (IP69K Rated)*
- Use mating plug EN 175301-803-B without diode bridge for DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

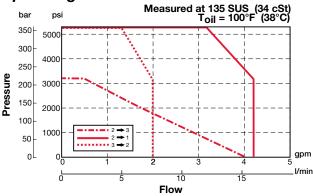
Coil Model 32-1329

For other coil connector types consult factory

**Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits



Standard Line Bodies*

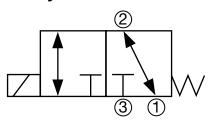
Code	Part No	Material	Pressure Rating	Weight
FH063-AS4	02600492	Aluminum, anodized	3500 psi (245 bar)	0.37 lbs (0.17 kg)
FH063-SS4	02600493	Steel, zinc plated	6000 psi (420 bar)	1.07 lbs (0.43 kg)

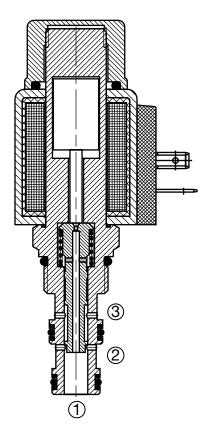
*Please refer to Line Bodies & Cavities section for details

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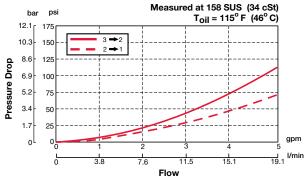
WK08C-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

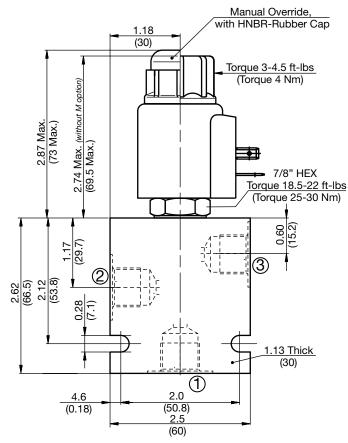
When de-energized the WK08C allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally, while blocking flow at port 1.

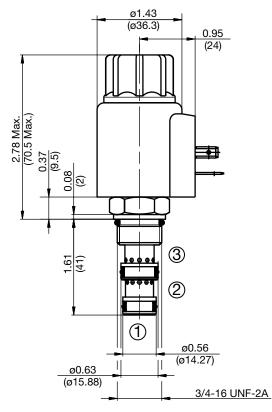
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

Specifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm (19 l/min)
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC08-3 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580086 Finisher: 02580087
Cartridge Weight	0.40 Lbs. (0.18 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton [®]	FS083-N P/N: 03054795 FS083-V P/N: 02591059





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK08C-01 M-C-N-24 DN</u>

Valve Model						
Ove	rride	Op	tion			
	blank	< =	No manual override			
	М	=	Manual override, push type			
Boo	ly & P	ort	s			
	C	=	Cartridge only			
	AS6	=	SAE-6 Ports, aluminum body			
	SS6	=	SAE-6 Ports, steel body			
Sea	Seals					
	Ν	=	Buna-N			

V Viton® =

Coil Voltage 0 No coil, cartridge only

	•	_	1.00 0000, 0	
DC	12	=	12 VDC	
	24	=	24 VDC	
	36	=	36 VDC	
	_110	=	110 VDC	(only available with connector DG)
AC	24	=	24 VAC	
	115	=	24 VAC 115 VAC 230 VAC	(AC coils internally full wave rectified)
	230	=	230 VAC	

Coil Connector

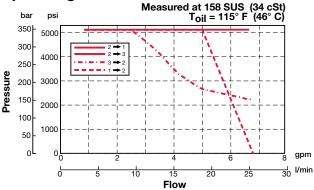
- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

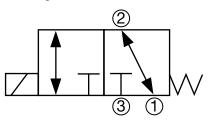


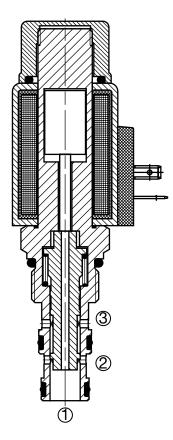
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH083-AS6	03011424	Aluminum, anodized	3500 psi (245 bar)	0.58 lbs (0.26 kg)
FH083-SS6	00560920	Steel, zinc plated	6000 psi (420 bar)	1.7 lbs (0.77 kg)

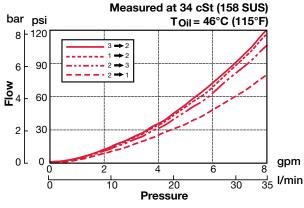
WK10C-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

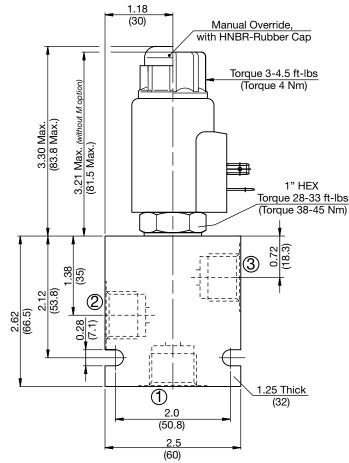
When de-energized the WK10C allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally, while blocking flow at port 1.

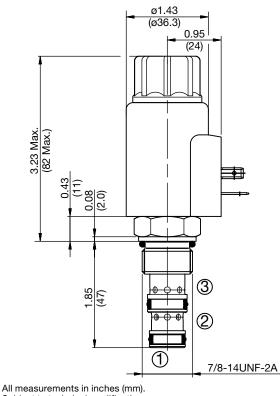
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opeemeanons	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	8.4 gpm (32 l/min)
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC10-3 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580092 Finisher: 02580093
Cartridge Weight	0.52 Lbs. (0.24 kg)
Coil Weight	0.51 Lbs. (0.23 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS103-N P/N: 03071274 FS103-V P/N: 03049443





Subject to technical modifications

Model Code

<u>4 DN</u>

woaei	C	ode
		<u>WK10C-01</u> <u>M</u> - <u>C</u> - <u>N</u> -
Valve Mo	del	
Override	QD	tion
		No manual override
М	=	Manual override, push type
Body & P	ort	s
Ċ	=	Cartridge only
AS8	=	SAE-8 Ports, aluminum body
SS8	=	SAE-8 Ports, steel body
Seals —		
N	=	Buna-N
V	=	Viton®
Coil Volta	ige	
0	=	No coil, cartridge only
DC 12	=	12 VDC
24	=	24 VDC 36 VDC
36	=	36 VDC
_110	=	110 VDC (only available with connector DG)
AC 24	=	24 VAC 115 VAC (AC coils internally full wave rectified)
115	=	115 VAC (AC coils internally full wave rectified)
_230	=	230 VAC
Coil Conr	nec	tor
DC DG	=	EN 175301-803-A

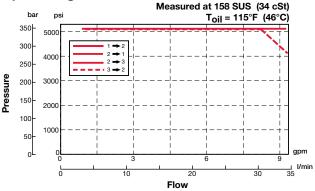
- = Dual spade (SAEJ858a)* DS
- DL =
- Leadwires (2) 18" long (46 cm)* WeatherPak™ on leadwires 9.5" long (24 cm)* Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DW =
- DN =
- DT Amp Junior Timer[™], molded, radial mount* =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits



Standard Line Bodies*

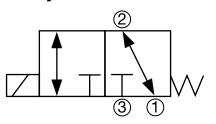
Code	Part No	Material	Pressure Rating	Weight
FH103-AS8	03038095	Aluminum, anodized	3500 psi (245 bar)	0.60 lbs (0.27 kg)
FH103-SS8	03037704	Steel, zinc plated	6000 psi (420 bar)	1.74 lbs (0.79 kg)

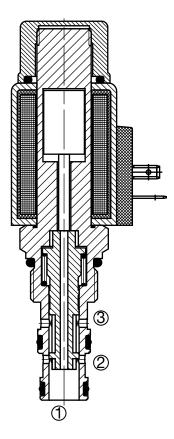
*Please refer to Line Bodies & Cavities section for details

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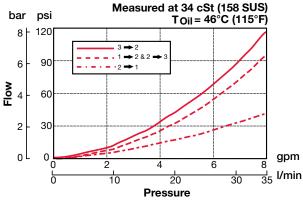
WK10C-40 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve, optimized for low pressure drop applications.

Operation

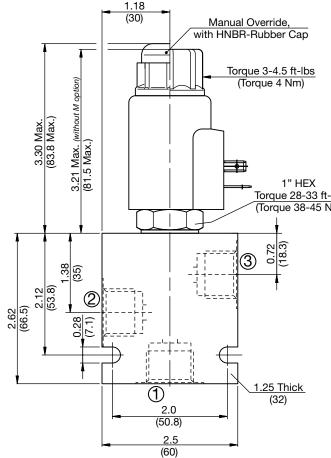
When de-energized the WK10C allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally, while blocking flow at port 1.

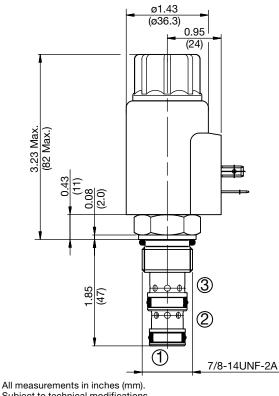
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opcomoutions	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	8.4 gpm (32 l/min)
Internal Leakage	18 cu in/min. at 3600 psi and 158 SUS (250 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.
Installation	No orientation restrictions
Cavity	FC10-3 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580092 Finisher: 02580093
Cartridge Weight	0.52 Lbs. (0.24 kg)
Coil Weight	0.51 Lbs. (0.23 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton [®]	FS103-N P/N: 03071274 FS103-V P/N: 03049443





Subject to technical modifications

Model Code

Ν

			<u>WK10C-40 M-C-N-</u>	24
Val	ve Mo	del		
Ove		< =	tion No manual override Manual override, push type	
Bo		= =	s Cartridge only SAE-8 Ports, aluminum body SAE-8 Ports, steel body	
Sea	••		Buna-N Viton®	
Coi	il Volta			
DC	12 24 36	= = =	No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)	
AC	115	=	24 VAC 115 VAC (AC coils internally full wave rectified) 230 VAC	
	l Conr			
DC	-		EN 175301-803-A Dual spade (SAF 1858a)*	

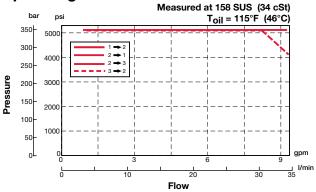
- Dual spade (SAEJ858a)* DS =
- DL =
- Leadwires (2) 18" long (46 cm)* WeatherPak™ on leadwires 9.5" long (24 cm)* DW =
- Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN =
- DT Amp Junior Timer™, molded, radial mount* =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits



Standard Line Bodies*

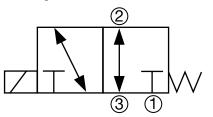
Code	Part No	Material	Pressure Rating	Weight
FH103-AS8	03038095	Aluminum, anodized	3500 psi (245 bar)	0.60 lbs (0.27 kg)
FH103-SS8	03037704	Steel, zinc plated	6000 psi (420 bar)	1.74 lbs (0.79 kg)

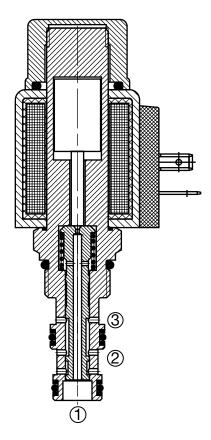
*Please refer to Line Bodies & Cavities section for details

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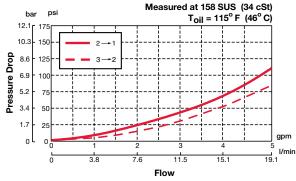
WK08D-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

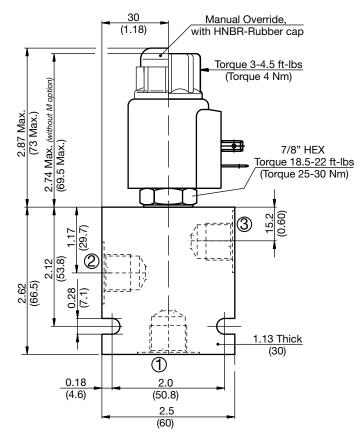
When de-energized the WK08D allows flow from port 3 to port 2 bi-directionally, while blocking flow at port 1. When energized the spool shifts and opens flow from port 2 to port 1 bi-directionally, while blocking flow at port 3.

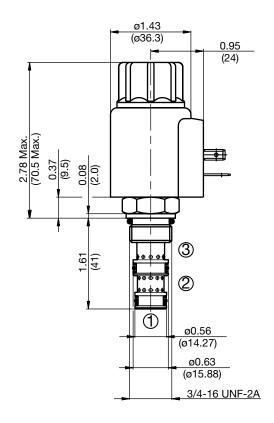
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

Specifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm (19 l/min)
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC08-3 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580086 Finisher: 02580087
Cartridge Weight	0.40 Lbs. (0.18 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS083-N P/N: 03054795 FS083-V P/N: 02591059





All measurements in inches (mm). Subject to technical modifications

<u>4 DN</u>

Model	Code
	<u>WK08D-01</u> <u>M</u> - <u>C</u> - <u>N</u>
Valve Mo	del
	Option (= No manual override = Manual override, push type
Body & P	orts
AS6	 Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body
	= Buna-N = Viton®
Coil Volta	ge
0 DC 12 24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
115	 = 24 VAC = 115 VAC (AC coils internally full wave rectified) = 230 VAC
Coil Conr	
DC DG	= EN 175301-803-A = Dual spade (SAFJ858a)*

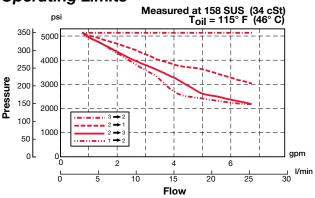
- Dual spade (SAEJ858a) = DS
- DL
- = Leadwires (2) 18" long (46 cm)*
 = WeatherPak[™] on leadwires 9.5" long (24 cm)*
 = Deutsch[™] DT04-2P, molded, axial (IP69K Rated)* DW
- DN
- Amp Junior Timer™, molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

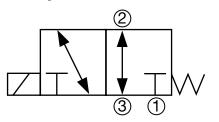


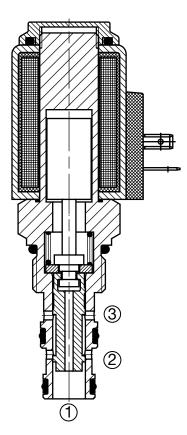
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH083-AS6	03011424	Aluminum, anodized	3500 psi (245 bar)	0.58 lbs (0.26 kg)
FH083-SS6	00560920	Steel, zinc plated	6000 psi (420 bar)	1.7 lbs (0.77 kg)

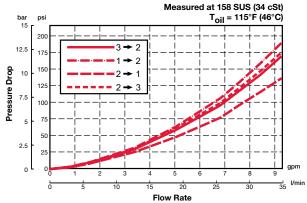
WK10D-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

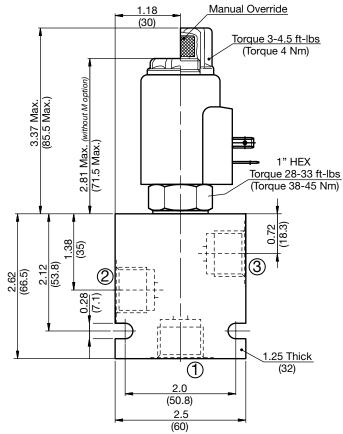
When de-energized the WK10D allows flow from port 2 to port 3 bi-directionally, while blocking flow at port 1. When energized the spool shifts and opens flow from port 2 to port 1 bi-directionally, while blocking flow at port 3.

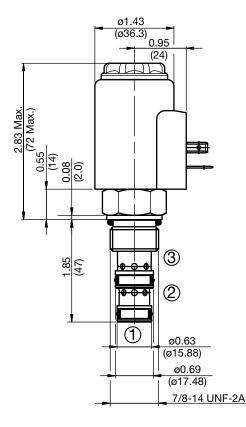
Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override option

opeemeatione			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm (32 l/min)		
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC10-3 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580092 Finisher: 02580093		
Cartridge Weight	0.52 Lbs. (0.24 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS103-N P/N: 03071274 FS103-V P/N: 03049443		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>N-24 DN</u>

woaei	C	ode
		<u>WK10D-01</u> <u>M</u> - <u>C</u> - <u>N</u>
Valve Mo	del	
Override	Ор	tion
blanł	< =	No manual override
М	=	Manual override, screw type
Body & P	ort	s
C	=	Cartridge only
		SAE-8 Ports, aluminum body
SS8	=	SAE-8 Ports, steel body
Seals —		
Ν	=	Buna-N
V	=	Viton®
Coil Volta	ige	
		No coil, cartridge only
DC 12	=	12 VDC
24	=	24 VDC 36 VDC
36	=	36 VDC
		110 VDC (only available with connector DG)
AC 24	=	24 VAC
115	=	24 VAC 115 VAC (AC coils internally full wave rectified) 230 VAC
230	=	230 VAG

Coil Connector

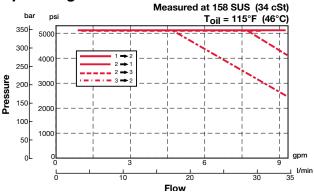
- = EN 175301-803-A DCDG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - DW
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - DT = Amp Junior Timer[™], molded, radial mount*
- AC AG = DIN 175301-803

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

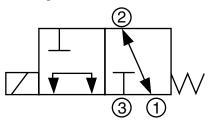


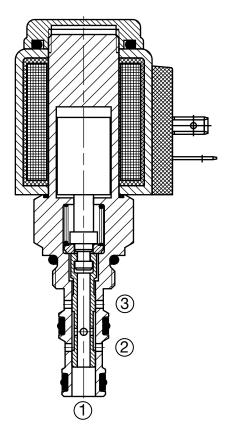
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH103-AS8	03038095	Aluminum, anodized	3500 psi (245 bar)	0.60 lbs (0.27 kg)
FH103-SS8	03037704	Steel, zinc plated	6000 psi (420 bar)	1.74 lbs (0.79 kg)

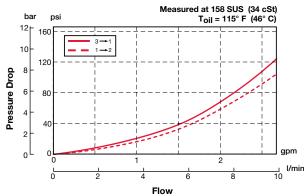
WK07L-01 Spool Type, Direct Acting Up to 2.5 gpm (10 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

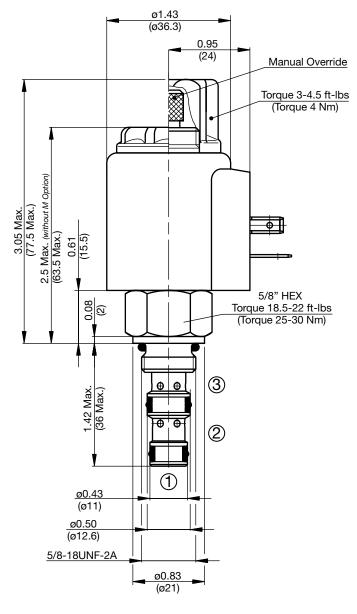
When de-energized the WK07L allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 1 to port 3 bi-directionally, while blocking flow at port 2.

Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

- One piece cartridge body design to maximize reliability
- Screw type manual override option

opeemeations			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	2.5 gpm at 5000 psi (10 l/min at 350 bar)		
Internal Leakage	4.3 cu in/min. at 3000 psi and 158 SUS (70 cc/min at 280 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated ß10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC07-3 (contact HYDAC for information)		
Cavity Tools	Rougher: N/A Finisher: N/A		
Cartridge Weight	0.33 Lbs. (0.15 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS073-N P/N: Consult factory FS073-V P/N: Consult factory		



Model Code

DN

	<u>WK07L-01 M-C-N-24</u>
Valve Mo	del
	Option
М	= Manual override, screw type
Body & P	orts
	= Cartridge only
	 SAE-6 Ports, aluminum body
SS6	= SAE-6 Ports, steel body
Seals —	
	= Buna-N
V	= Viton [®]
Coil Volta	ge
0	· · · , · · · · · · · · · · · · · · · ·
	= 12 VDC
	= 24 VDC
	 = 36 VDC = 110 VDC (only available with connector DG)
_	
	= 24 VAC
	= 115 VAC (AC coils internally full wave rectified)
	= 230 VAC
Coil Con	
	= EN 175301-803-A
DS	 Dual spade (SAEJ858a)*

- DL
- DW
- Dual space (3A20000)
 Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
- = Amp Junior Timer[™], molded, radial mount*
- DT
- AC AG = EN 175301-803-A

Coil Model 40-1836

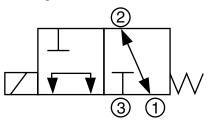
For other coil connector types consult factory

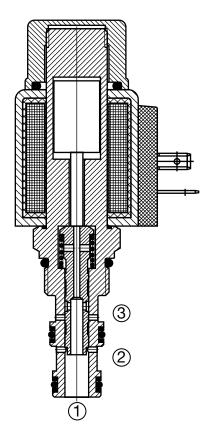
*Coils with internal diode are available, consult factory.

All measurements in inches (mm). Subject to technical modifications

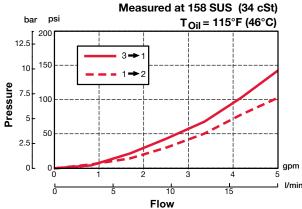
WK08L-01 Spool Type, Direct Acting Up to 4.5 gpm (17 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

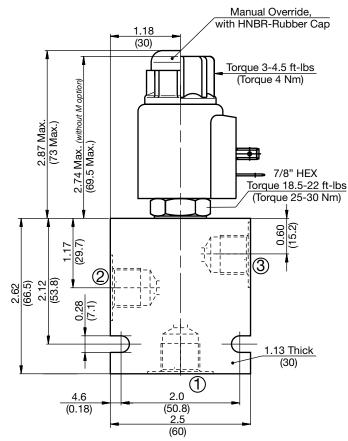
When de-energized the WK08L allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 1 to port 3 bi-directionally, while blocking flow at port 2.

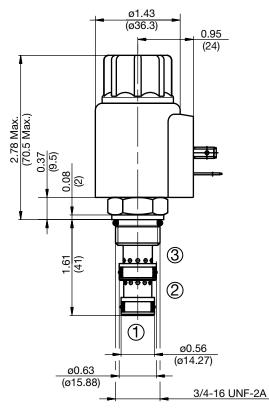
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opecifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	4.5 gpm (17 l/min)		
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC08-3 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580086 Finisher: 02580087		
Cartridge Weight	0.40 Lbs. (0.18 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS083-N P/N: 03054795 FS083-V P/N: 02591059		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>-C-N-24 DN</u>

	DUC
	<u>WK08L-01 M</u> -C-N
Valve Model	
	tion No manual override Manual override, push type
AS6 = SS6 =	s Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body
Seals N = V =	Buna-N Viton®
Coil Voltage	
DC 12 = 24 = 36 =	No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
AC 24 = 115 = 230 =	

Coil Connector

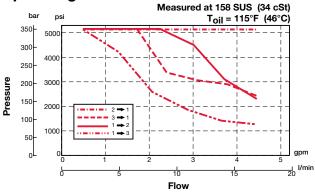
- = EN 175301-803-A DCDG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - DW
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - DT Amp Junior Timer™, molded, radial mount* =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

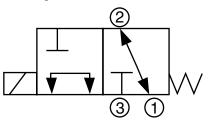


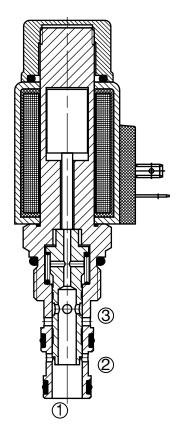
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH083-AS6	03011424	Aluminum, anodized	3500 psi (245 bar)	0.58 lbs (0.26 kg)
FH083-SS6	00560920	Steel, zinc plated	6000 psi (420 bar)	1.7 lbs (0.77 kg)

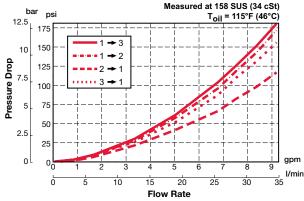
WK10L-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 3-way, 2 position, direct acting, spool type valve.

Operation

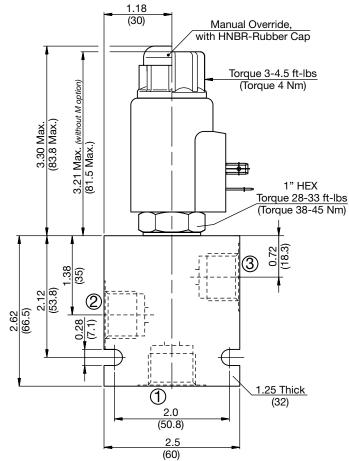
When de-energized the WK10L allows flow from port 2 to port 1 bi-directionally, while blocking flow at port 3. When energized the spool shifts and opens flow from port 1 to port 3 bi-directionally, while blocking flow at port 2.

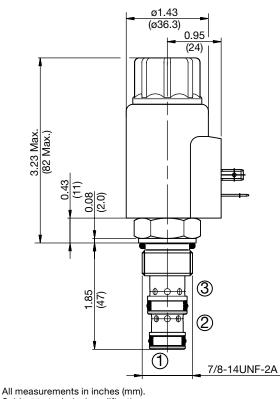
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

- One piece cartridge body design to maximize reliability
- Push type manual override button, protected by rubber cap

opeemeations			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm (32 l/min)		
Internal Leakage	6 cu in/min. at 3600 psi and 158 SUS (100 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC10-3 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580092 Finisher: 02580093		
Cartridge Weight	0.52 Lbs. (0.24 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS103-N P/N: 03071274 FS103-V P/N: 03049443		





Subject to technical modifications

Model Code

4 DN

Valv	e Mo	del	
Ove	rride	Оp	tion
	blank	(=	No manual override Manual override, push type
Bod	v & P	ort	s
	C AS8	= =	Cartridge only SAE-8 Ports, aluminum body SAE-8 Ports, steel body
Sea	ls —		
			Buna-N Viton®
Coil	Volta	ige	
DC	12 24 36	= = =	No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
AC	115	=	24 VAC 115 VAC (AC coils internally full wave rectified) 230 VAC

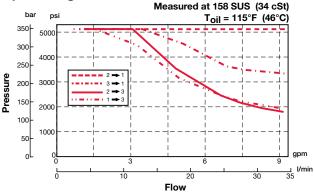
- DC DG = EN 175301-803-A
 - = Dual spade (SAEJ858a)* DS
 - DL =
 - Leadwires (2) 18" long (46 cm)* WeatherPak™ on leadwires 9.5" long (24 cm)* Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DW =
 - DN =
 - DT Amp Junior Timer[™], molded, radial mount* =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits



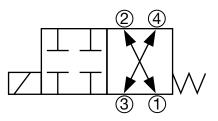
Standard Line Bodies*

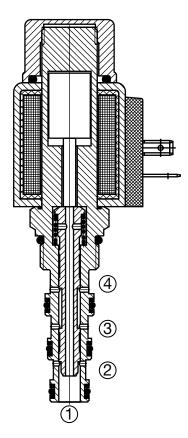
Code	Part No	Material	Pressure Rating	Weight
FH103-AS8	03038095	Aluminum, anodized	3500 psi (245 bar)	0.60 lbs (0.27 kg)
FH103-SS8	03037704	Steel, zinc plated	6000 psi (420 bar)	1.74 lbs (0.79 kg)

INNOVATIVE FLUID POWER HYDAE 197

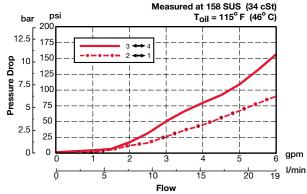
WK08A-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

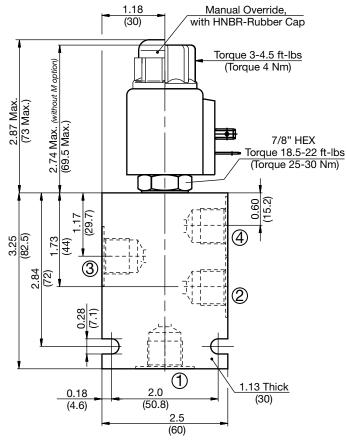
When de-energized the WK08A allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and blocks all ports.

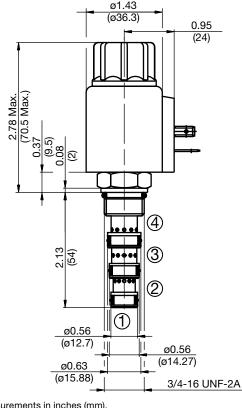
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Push type manual override button, protected by rubber cap

opecifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	5 gpm at 3600 psi (19 l/min at 250 bar) 2 gpm at 5000 psi (7.6 l/min at 350 bar)		
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC08-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580088 Finisher: 02580089		
Cartridge Weight	0.42 Lbs. (0.19 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK08A-01 M-C-N-24 DN</u>

Valve M	lodel	
Overrid	e Op	tion ———
bla	nk =	No manual override
М	=	Manual override, push type
Body &	Port	S
C	=	Cartridge only
AS		SAE-6 Ports, aluminum body

SS6 = SAE-6 Ports, steel body

Seals

Ν

Buna-N V Viton® = **Coil Voltage**

= No coil, cartridge only 0

DC 12 12 VDC =

=

- 24 = 24 VDC 36 36 VDC =
- 110 = 110 VDC (only available with connector DG)

24 VAC AC 24 =

115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

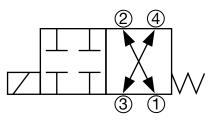
*Coils with internal diode are available, consult factory.

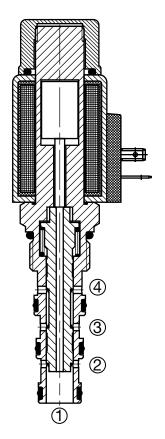
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

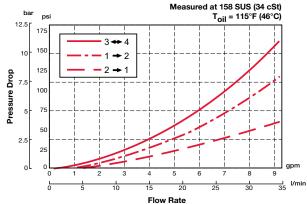
WK10A-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

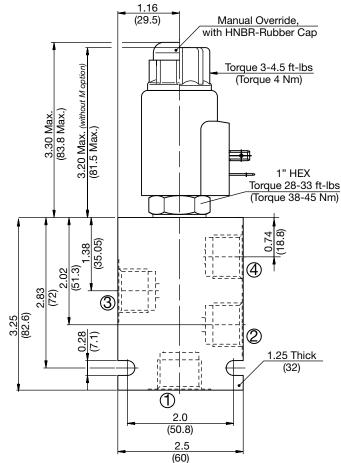
When de-energized the WK10A allows flow from port 3 to port 4 bi-directionally and port 2 to port 1 bi-directionally. When energized the spool shifts and blocks flow at all ports.

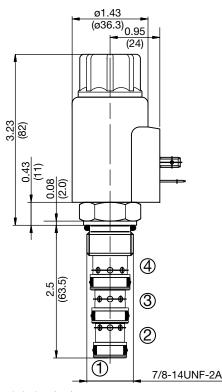
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opecifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)		
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.55 Lbs. (0.25 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		





All measurements in inches (mm). Subject to technical modifications

Model Code

WK10A-01 M-C-N-24 DN

Valv	Valve Model					
Ove	rride	Op	tion			
	blank	(=	No manual override			
	М	=	Manual override, push type			
Bod	ly & P	ort	S			
	C	=	Cartridge only			
	AS8	=	SAE-8 Ports, aluminum body			
	SS8	=	SAE-8 Ports, steel body			
Sea	ls —					
	N V		Buna-N Viton®			

Coil Voltage

= No coil, cartridge only 0

- DC 12 = 12 VDC
 - 24 = 24 VDC
 - 36 = 36 VDC
 - 110 = 110 VDC (only available with connector DG)

= 24 VAC AC 24

115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch[™] DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer[™], molded, radial mount* DT
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

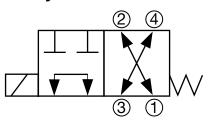
*Coils with internal diode are available, consult factory.

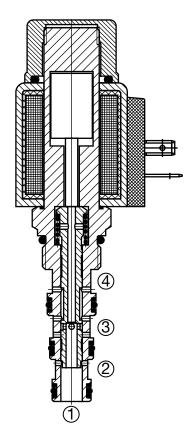
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

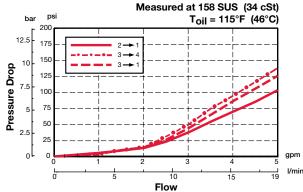
WK08K-01 Spool Type, Direct Acting Up to 4 gpm (15 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

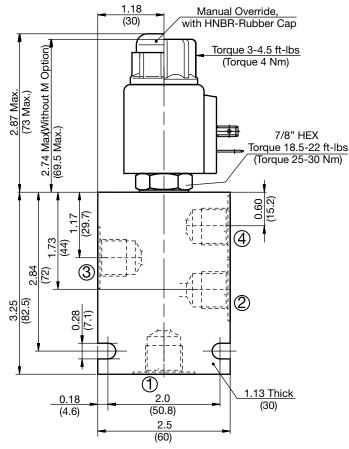
When de-energized the WK08K allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 1 to port 3 bi-directionally, ports 2 and 4 are blocked.

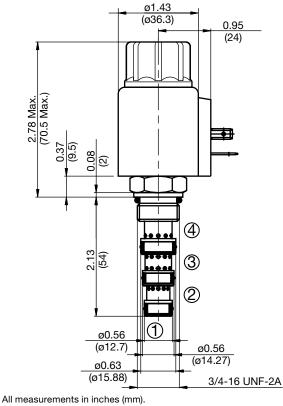
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opecifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	4 gpm at 3600 psi (15 l/min at 250 bar) 2 gpm at 5000 psi (7.6 l/min at 350 bar)		
Internal Leakage	5 cu in/min. at 3600 psi and 158 SUS (82 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC08-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580088 Finisher: 02580089		
Cartridge Weight	0.42 Lbs. (0.19 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273		





Subject to technical modifications

Model Code

WK08K-01 M-C N. 24 <u>DN</u>

			<u>WK08K-01 M-C-N-2</u>
Valv	ve Mod	lel	
Ove	erride (blank		tion No manual override
	Μ	=	Manual override, push type
Boo	iy & Po	ort	s
	AS6	=	Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body
Sea	ls —		
	Ν	=	Buna-N
	V	=	Viton®
Coi	l Voltag	ge	
	0	=	No coil, cartridge only
DC	12	=	12 VDC
	24	=	24 VDC
	36	=	36 VDC

110 = 110 VDC (only available with connector DG)

AC 24 24 VAC =

115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

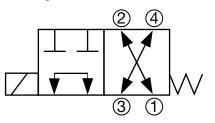
Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

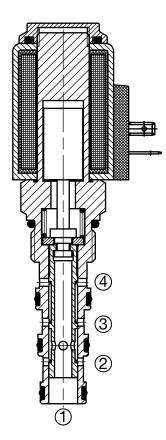
*Please refer to Line Bodies & Cavities section for details

INNOVATIVE FLUID POWER (HYDAC) 203

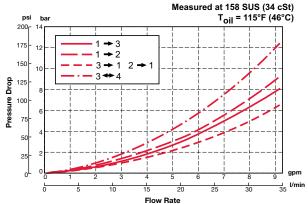
WK10K-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

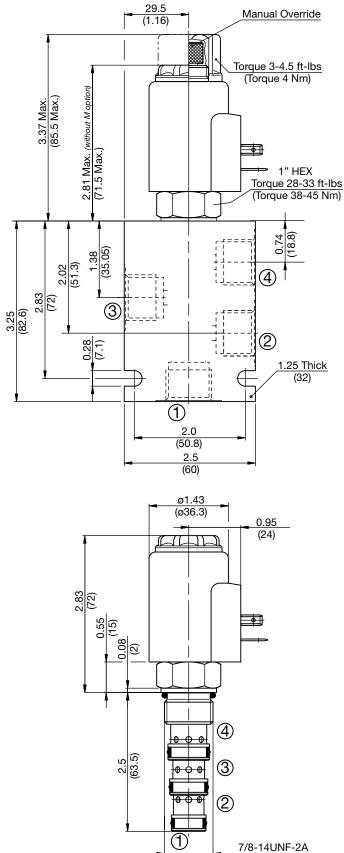
When de-energized the WK10K allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 1 to port 3 bi-directionally, ports 2 and 4 are blocked.

Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override

epeemeatione			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)		
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.55 Lbs. (0.25 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		



All measurements in inches (mm). Subject to technical modifications

Model Code

DN

	<u>WK10K-01 M-C-N-24</u>
Valve Mod	del
D.G.	Option
	= Buna-N = Viton®
Coil Volta	ge
24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
-	= 24 VAC = 115 VAC (AC coils internally full wave rectified) = 230 VAC

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - DW
 - = Leadwires (2) 18" long (46 cm)*
 = WeatherPak™ on leadwires 9.5" long (24 cm)*
 = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer™, molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

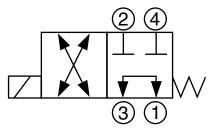
Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

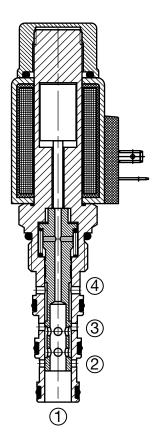
*Please refer to Line Bodies & Cavities section for details

INNOVATIVE FLUID POWER HYDAC 205

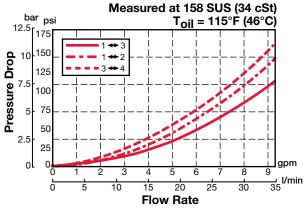
WK10N-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

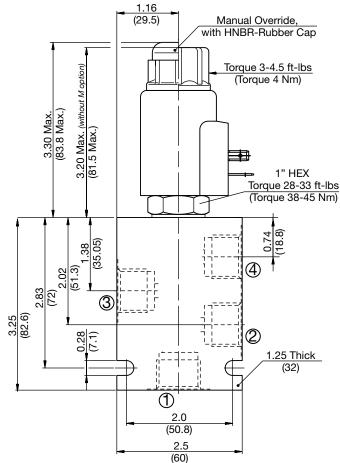
When de-energized the WK10N allows flow from port 1 to port 3 bi-directionally, ports 2 and 4 are blocked. When energized the spool shifts and allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally.

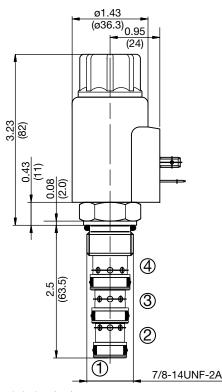
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opeemeations			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)		
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $\beta 10 \ge 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.55 Lbs. (0.25 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton [®]	FS104-N P/N: 03051912 FS104-V P/N: 03071275		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK10N-01 M-C-N-24 DN</u>

Valv	e Mo	del		
Ove	rride	Op	tion ———	
	blank	(=	No manual override	
	Μ	=	Manual override, push type	
Bod	y & P	ort	S	
	C	=	Cartridge only	
	AS8	=	SAE-8 Ports, aluminum body	
	SS8	=	SAE-8 Ports, steel body	
Sea	ls —			
	N	=	Buna-N	

V Viton® = **Coil Voltage**

 No coil, cartridge only 0

- DC 12 VDC 12 =
 - 24 VDC 24 =
 - 36 36 VDC =
 - 110 = 110 VDC (only available with connector DG)
- 24 VAC AC 24 =
 - 115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer[™], molded, radial mount* DT
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

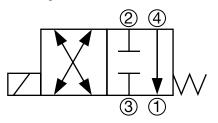
*Coils with internal diode are available, consult factory.

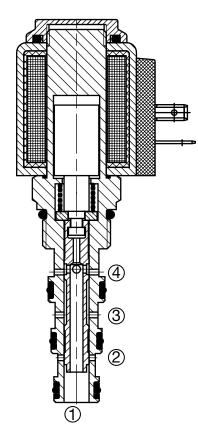
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, Zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

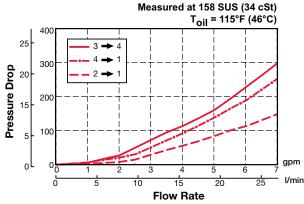
WK08P-01 Spool Type, Direct Acting Up to 4 gpm (15 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

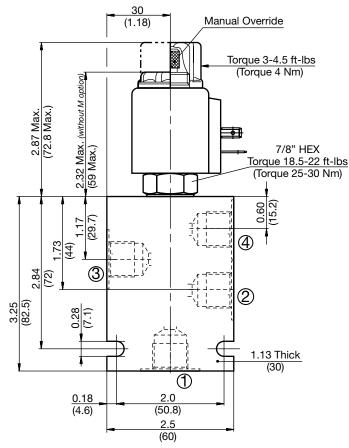
When de-energized the WK08P blocks flow at ports 2 and 3, flow is allowed from port 1 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally.

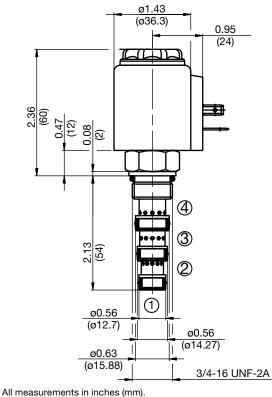
Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override

opcomoutions			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	4 gpm at 3600 psi (15 l/min at 250 bar) 2 gpm at 5000 psi (7.6 l/min at 350 bar)		
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC08-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580088 Finisher: 02580089		
Cartridge Weight	0.42 Lbs. (0.19 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273		





Subject to technical modifications

Model Code

1 DN

	<u>WK08P-01</u> <u>M</u> - <u>C</u> - <u>N-24</u>
Valve Mod	lel
Did.iii	Deption = No manual override = Manual override, screw type
Body & Po	rts
AS6	 Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body
Seals —	
	= Buna-N = Viton®
Coil Volta	ge
24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)
	04 1/00

- AC 24 = 24 VAC
 - 115 = 115 VAC (AC coils internally full wave rectified) 230 = 230 VAC

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer™, molded, radial mount* DT
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

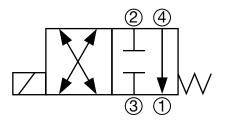
*Coils with internal diode are available, consult factory.

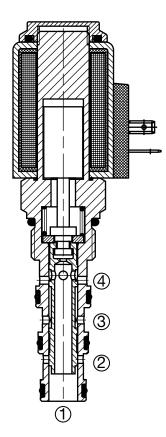
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

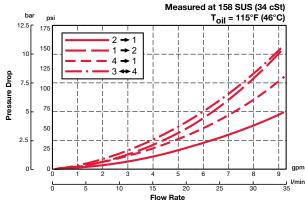
WK10P-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

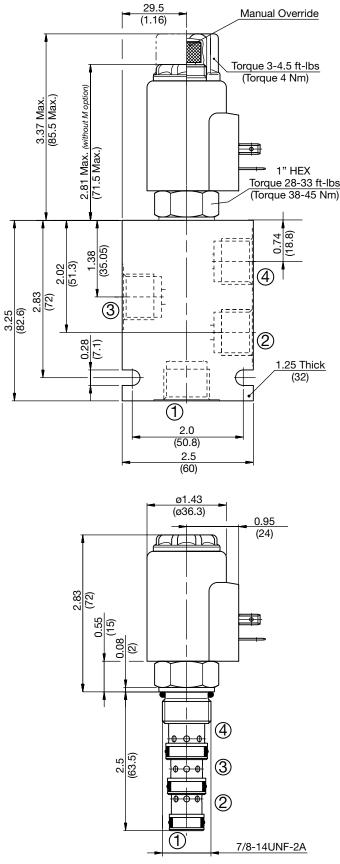
When de-energized the WK10P blocks flow at ports 2 and 3, flow is allowed from port 1 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally.

Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Screw type manual override

opeemeatione			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)		
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.55 Lbs. (0.25 kg)		
Coil Weight	0.51 Lbs. (0.23 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		



All measurements in inches (mm). Subject to technical modifications

Model Code

V

	<u>WK10P-01</u> <u>M</u> -0	<u> 2-N-24 DN</u>
alve Mo	del	
Body & P	orts —	i
AS8	= SAE-8 Ports, aluminum body	
oil Volta	ge ————	
0C 12 24 36	= 12 VDC = 24 VDC = 36 VDC	
115	= 115 VAC (AC coils internally full wave rectif	ïed)
	Dverride (blank M Sody & Pc C AS8 SS8 Seals	$\begin{array}{rcl} N & = & \text{Buna-N} \\ V & = & \text{Viton}^{\circledast} \end{array}$ coil Voltage $\begin{array}{rcl} 0 & = & \text{No coil, cartridge only} \\ 0 & \hline 12 & = & 12 \text{ VDC} \\ 24 & = & 24 \text{ VDC} \\ 36 & = & 36 \text{ VDC} \\ 110 & = & 110 \text{ VDC (only available with connector DG)} \\ 0 & \hline 24 & = & 24 \text{ VAC} \\ 115 & = & 115 \text{ VAC} & (AC \text{ coils internally full wave rectifeed} \end{array}$

Coil Connector

- DCDG = EN 175301-803-A
 - DS = Dual spade (SAEJ858a)*
 - DL
 - = Leadwires (2) 18" long (46 cm)*
 = WeatherPak™ on leadwires 9.5" long (24 cm)*
 = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DW
 - DN
 - Amp Junior Timer™, molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

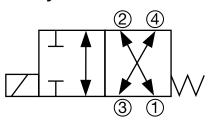
Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

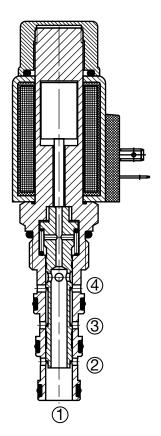
*Please refer to Line Bodies & Cavities section for details

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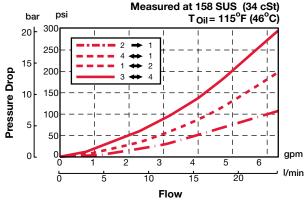
WK08R-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

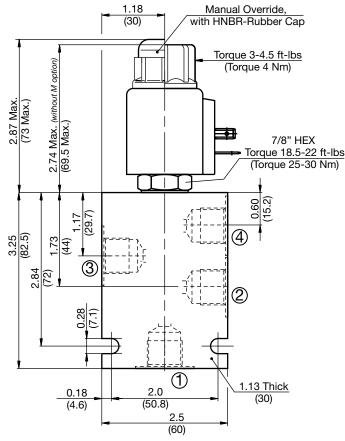
When de-energized the WK08R allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and allows bi-directional flow from port 1 to port 4, ports 2 and 3 are blocked.

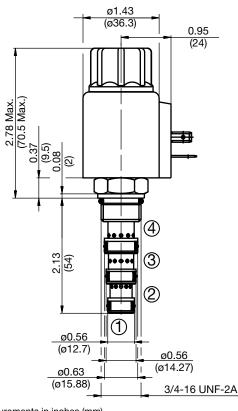
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opecifications					
Operating Pressure	5000 psi (350 bar)				
Nominal Flow	5 gpm at 3600 psi (19 l/min at 250 bar)				
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)				
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)				
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)				
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage				
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC				
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)				
Fluid Compatibility	Mineral-based or synthetics with lubricating properties				
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)				
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.				
Installation	No orientation restrictions				
Cavity	FC08-4 (see Line Bodies & Cavities section)				
Cavity Tools	Rougher: 02580088 Finisher: 02580089				
Cartridge Weight	0.42 Lbs. (0.19 kg)				
Coil Weight	0.42 Lbs. (0.19 kg)				
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.				
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.				
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273				





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>C-N-24 DN</u>

			<u>WK08</u>	<u>8R-01 N</u>	<u>/- (</u>
Valv	ve Mo	del			
Ove	erride	Ор	tion ———]
	blank	< =	No manual override		
	М	=	Manual override, push type		
Boo	ly & P	ort	S		
	C	=	Cartridge only		
	AS6	=	SAE-6 Ports, aluminum body		
	SS6	=	SAE-6 Ports, steel body		
Sea	ls —				
	Ν	=	Buna-N		
	V	=	Viton®		
Coi	l Volta	ige			
	0	=	No coil, cartridge only		
DC	12	=	12 VDC		
	24	=	24 VDC		
			36 VDC		

- 110 = 110 VDC (only available with connector DG)
- 24 VAC AC 24 =
 - 115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

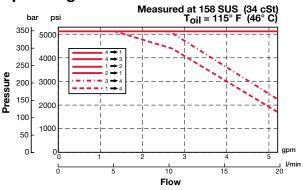
- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

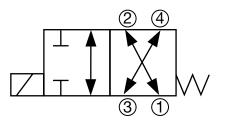


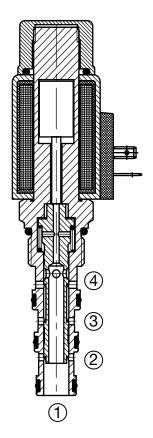
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

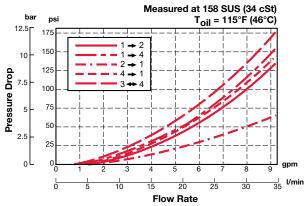
WK10R-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

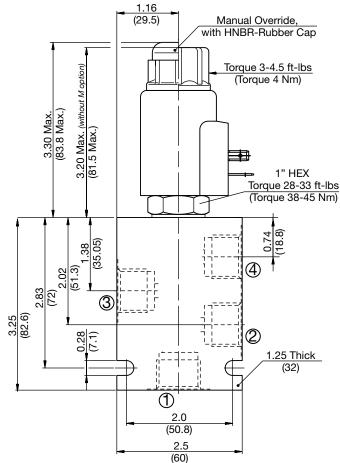
When de-energized the WK10R allows flow from port 3 to port 4 bi-directionally and port 2 to port 1 bi-directionally. When energized the spool shifts and blocks flow at ports 2 and 3, allowing the flow from port 1 to port 4 bi-directionally.

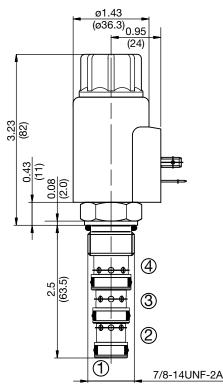
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation

Features

• Push type manual override button, protected by rubber cap

opecifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)
Internal Leakage	6 cu in/min. at 3600 psi and 158 SUS (100 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC10-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580248 Finisher: 02580249
Cartridge Weight	0.55 Lbs. (0.25 kg)
Coil Weight	0.51 Lbs. (0.23 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275





All measurements in inches (mm). Subject to technical modifications

Model Code

WK10R-01 M-C-N-24 DN

/alve Model	Valve Model
Override Option	Override Opt
blank = No manual override	blank =
M = Manual override, push type	M =
Body & Ports —————————————————	Body & Ports
C = Cartridge only	C =
AS8 = SAE-8 Ports, aluminum body	AS8 =
SS8 = SAE-8 Ports, steel body	SS8 =
Seals ————	Seals ——
N = Buna-N	N =
V = Viton®	V =
Coil Voltage	Coil Voltage

No coil, cartridge only 0 =

- DC 12 VDC 12 =
 - 24 = 24 VDC
 - 36 36 VDC =
 - 110 = 110 VDC (only available with connector DG)
- 24 VAC AC 24 =
 - 115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
 - = Deutsch[™] DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer[™], molded, radial mount* DT
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

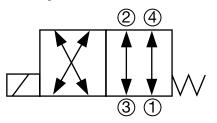
*Coils with internal diode are available, consult factory.

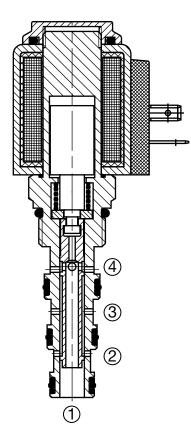
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

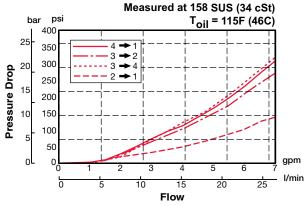
WK08X-01 Spool Type, Direct Acting Up to 4.5 gpm (17 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

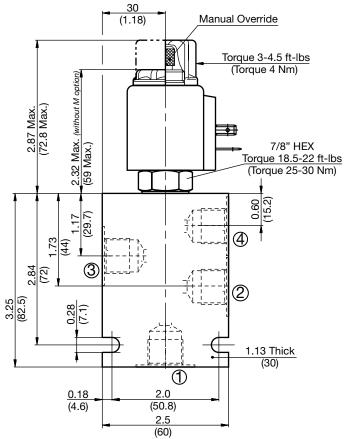
When de-energized the WK08X allows flow from port 2 to port 3 bi-directionally and port 1 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 3 to port 4 bi-directionally and from port 2 to port 1 bi-directionally.

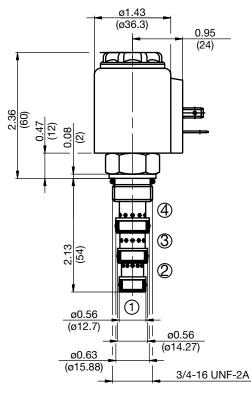
Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Screw type manual override

opecifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	4.5 gpm at 3600 psi (17 l/min at 250 bar)
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC08-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580088 Finisher: 02580089
Cartridge Weight	0.42 Lbs. (0.19 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273





All measurements in inches (mm). Subject to technical modifications

Model Code

WK08X-01 M-C-N-24 DN

^		^	4 '	
Ove			No manual override	
	M	-	Manual override, screw type	
Bod	y & P	ort	s	
	C	=	Cartridge only	
	AS6	=	SAE-6 Ports, aluminum body	
	SS6	=	SAE-6 Ports, steel body	
Sea	ls —			
	Ν	=	Buna-N	
	V	=	Viton®	
Coil	Volta	ige		
	0	=	No coil, cartridge only	
DC	12	=	12 VDC	
	24	=	24 VDC	
	36	=	36 VDC	
L	110	=	110 VDC (only available with connector DG)	
AC			24 VAC	
	115	=	115 VAC (AC coils internally full wave rectified)	
			230 VAC	

- DC DG = EN 175301-803-A
 - = Dual spade (SAEJ858a)* DS
 - DL
 - DW
 - Data Space (J) = 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer™, molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

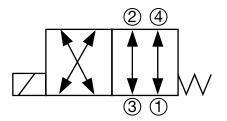
Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

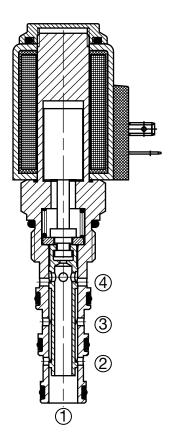
*Please refer to Line Bodies & Cavities section for details

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WK10X-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

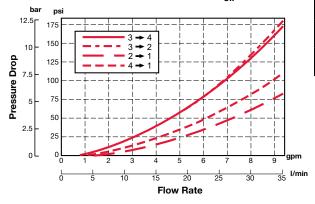
Hydraulic Symbol





Performance

Measured at 158 SUS (34 cSt) T_{oil} = 115°F (46°C)



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

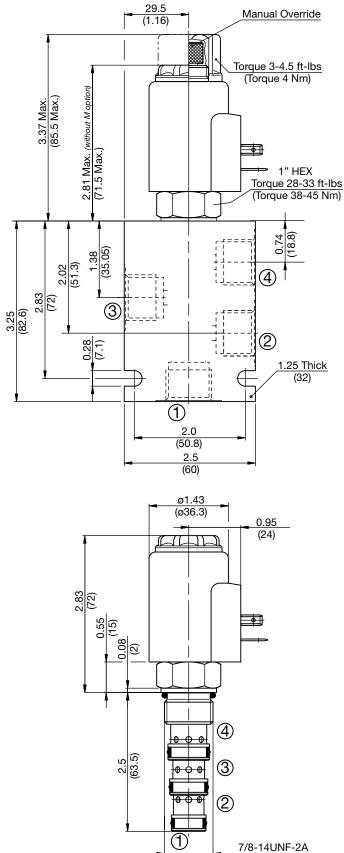
When de-energized the WK10X allows flow from port 2 to port 3 bi-directionally and port 1 to port 4 bi-directionally. When energized the spool shifts and allows flow from port 3 to port 4 bi-directionally and from port 2 to port 1 bi-directionally.

Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Screw type manual override

opecifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)
Internal Leakage	6 cu in/min. at 3600 psi and 158 SUS (100 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC10-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580248 Finisher: 02580249
Cartridge Weight	0.55 Lbs. (0.25 kg)
Coil Weight	0.51 Lbs. (0.23 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275



All measurements in inches (mm). Subject to technical modifications

Model Code

N

		-	040	
			<u>₩K10X-01</u> <u>M</u> -Ç- <u>N</u>	- <u>2</u>
Valve	Mod	el		
Overr	ide C)p	tion	
b	olank	=	No manual override	
Ν	Л	=	Manual override, screw type	
Body	& Po	rt	s	
C)	=	Cartridge only	
A	S8	=	SAE-8 Ports, aluminum body	
S	SS8	=	SAE-8 Ports, steel body	
Seals				
Ν	1	=	Buna-N	
٧	/	=	Viton®	
Coil V	/oltag	je		
C)	=	No coil, cartridge only	
DC ₁	2	=	12 VDC	
			24 VDC	
3	86	=	36 VDC	
_1	10	=	110 VDC (only available with connector DG)	
AC 2	24	=	24 VAC	
1	15	=	115 VAC (AC coils internally full wave rectified)	
			230 VAC	

Coil Connector

- DCDG = EN 175301-803
 - DS = Dual spade (SAEJ858a)*
 - DL
 - = Leadwires (2) 18" long (46 cm)*
 = WeatherPak™ on leadwires 9.5" long (24 cm)*
 = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DW
 - DN
 - DT Amp Junior Timer[™], molded, radial mount* =
- AC AG = EN 175301-803

Coil Model 50-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Standard Line Bodies*

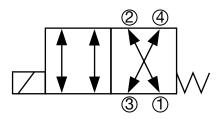
Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

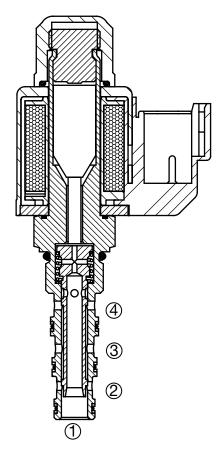
*Please refer to Line Bodies & Cavities section for details

INNOVATIVE FLUID POWER HYDAC 219

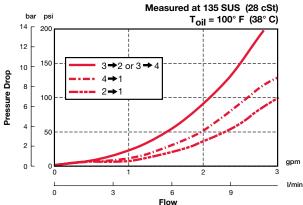
WK06Y-01 Spool Type, Direct Acting Up to 2 gpm (7.6 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



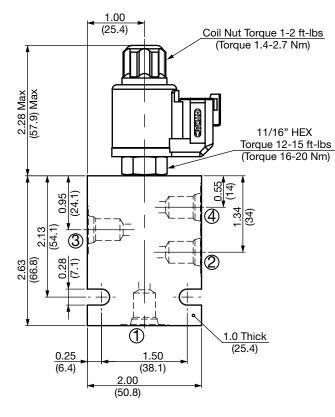
Description

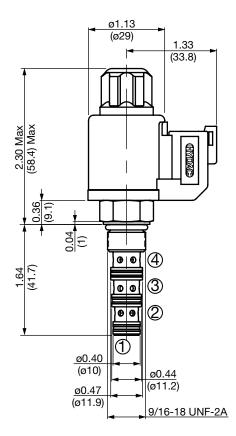
A screw-in cartridge, solenoid operated, 4 way 2 position, direct acting, spool type valve.

Operation

When de-energized the WK06Y allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally and from port 4 to port 1

opcomoutions			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	2 gpm (7.6 l/min)		
Nominal Pressure	Up to 5000 psi. (350 bar), 3000 psi (207 bar) max on tank (port 1)		
Internal Leakage	6.0 cu in/min. at 3000 psi and 135 SUS (100 cc/min at 207 bar and 38 cSt)		
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C)		
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC		
Min. Pull-in Current to Operate Valve	70% of nominal amperage		
Typical Response Time (Varies with Pressure and Flow)	On: 30 to 60 ms Off: 20 to 40 ms		
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties.		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner per (ISO 4406)		
Installation	No orientation restrictions		
Cavity	FC06-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02582057 Finisher: 02582058		
Cartridge Weight	3.6 oz (102 grams)		
Coil Weight	3.1 oz (88 grams)		
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.		
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.		
Seal Kits Buna-N Viton [®]	FS064-N P/N: 02610188 FS064-V P/N: 02610189		





All measurements in inches (mm). Subject to technical modifications

Model Code

WK06Y-01 M-C-N-24 DN

	<u>WK06Y-01 M-C-N-24 DN</u>
Valve Model	
Override Op	tion
	No manual override
IVI =	Manual override, push type (for availability consult factory)
Body & Ports	s
C =	Cartridge only
AS4 =	SAE-4 Ports, aluminum body
SS4 =	SAE-4 Ports, steel body
Seals ——	
	Buna-N
V =	Viton®
Coil Voltage	
0 =	No coil, cartridge only
	12 VDC
_24 =	
	105 VDC (only available with connector DG)
_230 =	205 VDC (only available with connector DG)
•	329 coils are DC. AC models require an external diode bridge
mounted outsid	de the coil)**
Coil Connec	tor
DG =	EN 175301-803-B (IP65 Rated)**

- DC DL = Leadwires (2) - 18" long (46 cm) AWG18, TYPE UL 1815
 - (IP69K Rated)*
 - DN = Deutsch DT04-2P integral molded (IP69K Rated)*
- Use mating plug EN 175301-803-B without diode bridge for DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for

AC voltages P/N 02600582

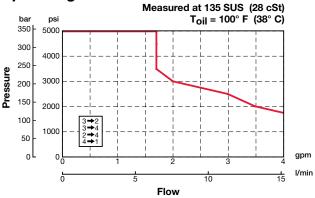
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits

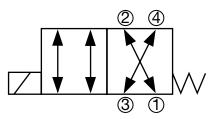


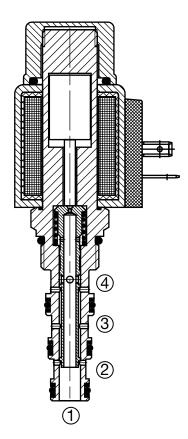
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH064-AS4	02600462	Aluminum, anodized	3500 psi (245 bar)	0.43 lbs (0.20 kg)
FH064-SS4	02600461	Steel, zinc plated	6000 psi (420 bar)	1.25 lbs (0.57 kg)

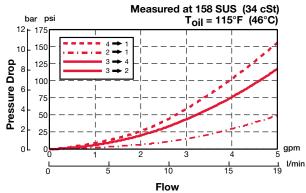
WK08Y-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

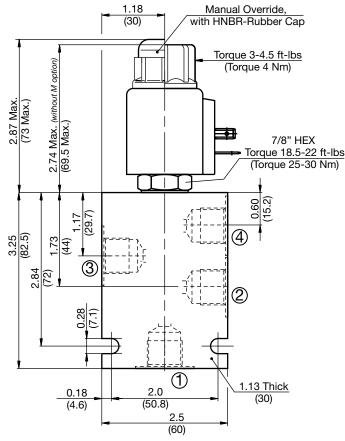
When de-energized the WK08Y allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally and from port 4 to port 1.

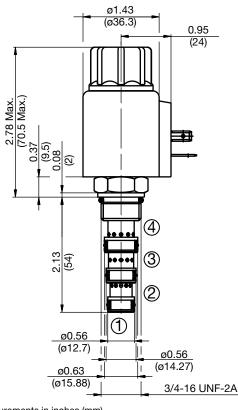
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

Specifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm at 3600 psi (19 l/min at 250 bar)
Internal Leakage	5 cu in/min. at 3600 psi and 158 SUS (82 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC08-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580088 Finisher: 02580089
Cartridge Weight	0.42 Lbs. (0.19 kg)
Coil Weight	0.42 Lbs. (0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273





All measurements in inches (mm). Subject to technical modifications

Model Code

			<u>WK08Y-01 M</u> -C-N	- <u>24</u>
Valv	e Mo	del		
Ove	blank	: =	tion No manual override Manual override, push type	
Bod		= =	s Cartridge only SAE-6 Ports, aluminum body SAE-6 Ports, steel body	
Sea			Buna-N Viton®	
Coil	Volta 0		No coil, cartridge only	
DC	12 24 36	= = =	12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)	
AC	115	=	24 VAC 115 VAC (AC coils internally full wave rectified) 230 VAC	
Coil	Conr	iec	tor	
DC			EN 175301-803-A Dual spade (SAE 1858a)*	

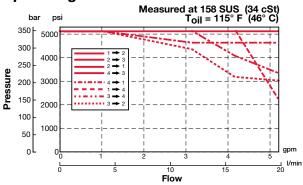
- Dual spade (SAEJ858a)* DS =
- DL =
- DW =
- Leadwires (2) 18" long (46 cm)* WeatherPak™ on leadwires 9.5" long (24 cm)* Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN =
- Amp Junior Timer™, molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Operating Limits

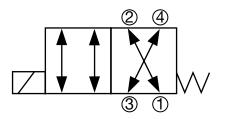


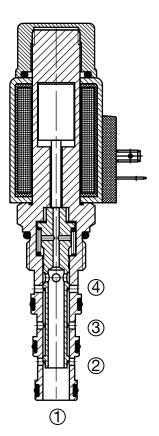
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

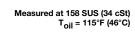
WK10Y-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

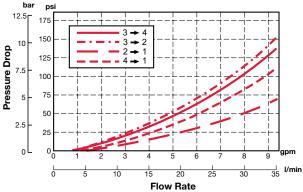
Hydraulic Symbol





Performance





Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

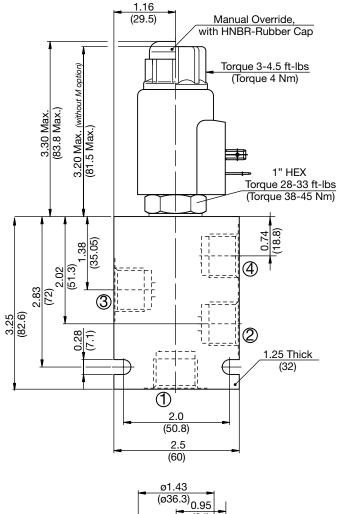
When de-energized the WK10Y allows flow from port 2 to port 1 bi-directionally and port 3 to port 4 bi-directionally. When energized the spool shifts and opens flow from port 2 to port 3 bi-directionally and from port 4 to port 1.

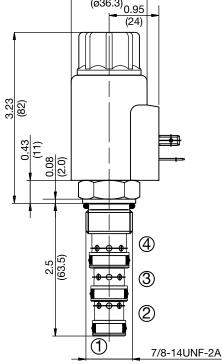
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

• Push type manual override button, protected by rubber cap

opecifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)
Internal Leakage	7.3 cu in/min. at 3600 psi and 158 SUS (120 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw @ 68°F (20°C)	2.22 A at 12VDC; 1.13 A at 24VDC
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.
Installation	No orientation restrictions
Cavity	FC10-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580248 Finisher: 02580249
Cartridge Weight	0.55 Lbs. (0.25 kg)
Coil Weight	0.51 Lbs. (0.23 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton [®]	FS104-N P/N: 03051912 FS104-V P/N: 03071275





All measurements in inches (mm). Subject to technical modifications

Model Code

V

	<u>WK10Y-01 M-C-N-24 DN</u>
Valve Mo	
Override	Option
blank	= No manual override
М	= Manual override, push type
Body & Po	orts
	= Cartridge only
	= SAE-8 Ports, aluminum body
SS8	= SAE-8 Ports, steel body
Seals —	
	= Buna-N
V	= Viton [®]
Coil Volta	ge
	= No coil, cartridge only
	= 12 VDC
	= 24 VDC
	= 36 VDC
	= 110 VDC (only available with connector DG)
-	= 24 VAC
	= 115 VAC (AC coils internally full wave rectified)
_230	= 230 VAC

Coil Connector

- DCDG = EN 175301-803-A
 - = Dual spade (SAEJ858a)* DS
 - DL
 - DW
 - Data Space (J) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)*
 Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - DT = Amp Junior Timer[™], molded, radial mount*
- AC AG = DIN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

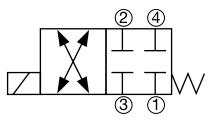
*Coils with internal diode are available, consult factory.

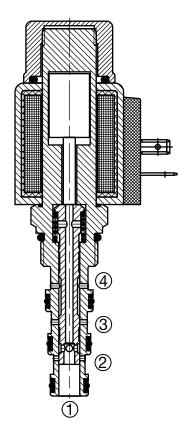
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

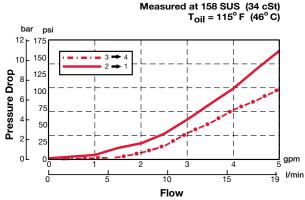
WK08Z-01 Spool Type, Direct Acting Up to 4.5 gpm (17 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

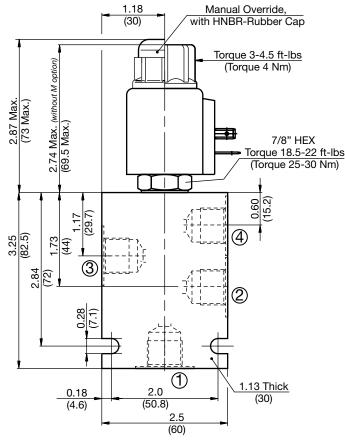
When de-energized the WK08Z blocks flow at all ports. When energized the spool shifts and allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally.

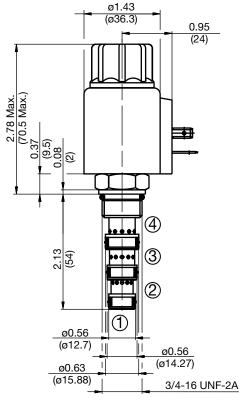
Operation of Manual Override Option: To override, push and hold the override button. The override is not detented. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Push type manual override button, protected by rubber cap

Specifications			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	4.5 gpm at 3600 psi (17 l/min at 250 bar) 2 gpm at 5000 psi (7.6 l/min at 350 bar)		
Internal Leakage	5.5 cu in/min. at 3600 psi and 158 SUS (90 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 \geq 200.		
Installation	No orientation restrictions		
Cavity	FC08-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580088 Finisher: 02580089		
Cartridge Weight	0.42 Lbs. (0.19 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS084-N P/N: 03071272 FS084-V P/N: 03071273		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK08Z-01 M-C-N-24 DN</u>

Valv	N = Buna-N		
Ove	rride	Ор	tion
	blank	(=	No manual override
	М	=	Manual override, push type
Bod	y & P	ort	S
	С	=	Cartridge only
	AS6	=	SAE-6 Ports, aluminum body
	SS6	=	SAE-6 Ports, steel body
Sea	ls —		
	Ν	=	Buna-N
	V	=	Viton®

Coil Voltage

 No coil, cartridge only 0

- DC 12 VDC 12 =
 - 24 = 24 VDC 36 36 VDC =
 - 110 = 110 VDC (only available with connector DG)
- 24 VAC AC 24 =
 - 115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 40-1836

For other coil connector types consult factory

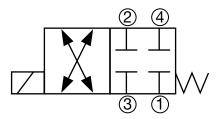
*Coils with internal diode are available, consult factory.

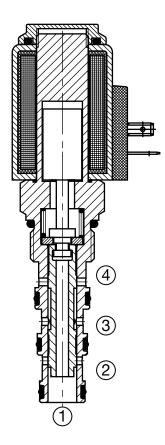
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

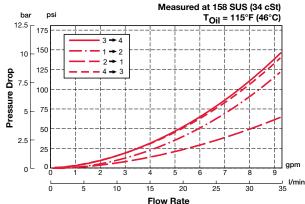
WK10Z-01 Spool Type, Direct Acting Up to 8.4 gpm (32 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 2 position, direct acting, spool type valve.

Operation

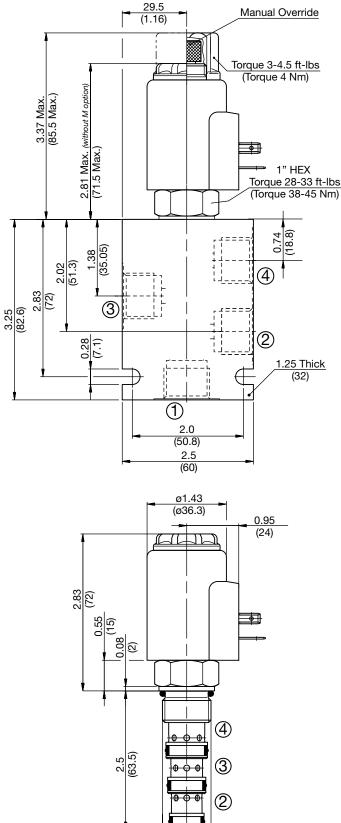
When de-energized the WK10Z blocks flow at all ports. When energized the spool shifts and allows flow from port 1 to port 2 bi-directionally and from port 3 to port 4 bi-directionally.

Operation of Manual Override Option: To override, remove the coil nut, turn the override knurled knob counterclockwise until it stops. The override will remain activated until the knob is turned clockwise to original position. The manual override option is intended for emergency use, not for continuous duty operation.

Features

Screw type manual override

opcomoations			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	8.4 gpm at 5000 psi (32 l/min at 350 bar)		
Internal Leakage	6 cu in/min. at 3600 psi and 158 SUS (100 cc/min at 250 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw @ 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Min. Pull-in Voltage @ 68°F (20°C)	90% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 \ge 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.64 Lbs. (0.29 kg)		
Coil Weight	0.42 Lbs. (0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		



(1)

7/8-14UNF-2A

All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK10Z-01</u> M-C-N-24 DN

Valve	Model		
Overri	ide Op	tion ———	
b	lank =	No manual override Manual override, screw type	
-	& Port	s Cartridge only	

- AS8 = SAE-8 Ports, aluminum body
- SS8 = SAE-8 Ports, steel body

Seals

Ν V

Viton® **Coil Voltage**

= Buna-N

- No coil, cartridge only 0
- DC 12 VDC 12 =

=

- 24 = 24 VDC
- 36 36 VDC =
- 110 = 110 VDC (only available with connector DG)

24 VAC AC 24 =

115 = 115 VAC (AC coils internally full wave rectified) 230 230 VAC =

Coil Connector

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - Amp Junior Timer[™], molded, radial mount* DT =
- AC AG = EN 175301-803-A

Coil Model 50-1836

For other coil connector types consult factory

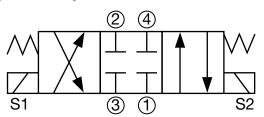
*Coils with internal diode are available, consult factory.

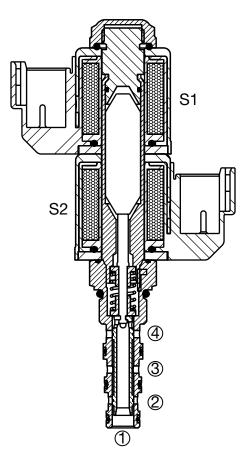
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lbs (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lbs (0.96 kg)

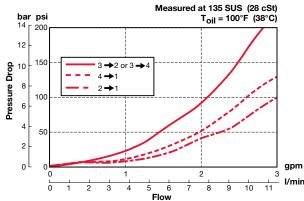
WK06E-01 Spool Type, Direct Acting Up to 3 gpm (11.4 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



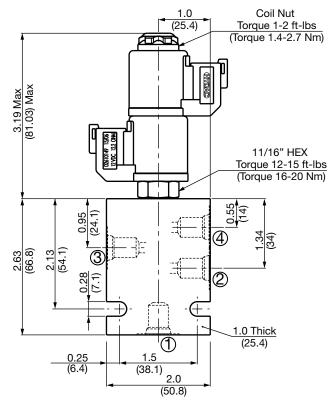
Description

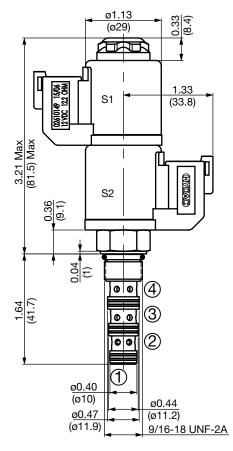
A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK06E blocks flow at all ports. When coil S1 is energized the spool shifts and allows flow from port 2 to port 1 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

opoomoutiono			
Operating Pressure	5000 psi (350 bar), 3000 psi (210 bar) Max Port 1		
Nominal Flow	See Operating Limits		
Internal Leakage	14.0 cu in/min. at 3000 psi and 135 SUS (230 cc/min at 207 bar and 28 cSt)		
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120°C)		
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC		
Min. Pull-in Current to Operate Valve	70% of nominal amperage		
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner per (ISO 4406)		
Installation	No orientation restrictions		
Cavity	FC06-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02582057 Finisher: 02582058		
Cartridge Weight	3.6 oz (102 grams)		
Coil Weight	3.1 oz (88 grams) each (2 required)		
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.		
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.		
Seal Kits Buna-N Viton®	FS064-N P/N: 02610188 FS064-V P/N: 02610189		





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK06E-01 M-C-N-24 DN</u>

	<u>WK06E-01</u> M-C-N-24 L
Valve Mo	del
Override	Option
	k = No manual override
М	 Manual override, not detented
А	= Manual override, detented
Body & P	orts
C	= Cartridge only
AS4	= SAE-4 Ports, aluminum Body
SS4	= SAE-4 Ports, steel Body
Seals —	
N	= Buna-N
V	= Viton®
Coil Volta	age
0	 No coil, cartridge only
DC 12	= 12 VDC
_24	= 24 VDC
AC 115	 105 VDC (only available with connector DG)
230	= 205 VDC (only available with connector DG)
(All model 3	32-1329 coils are DC. AC models require an external diode bridge utside the coil)**
Coil Conr	nector
DG	= EN 175301-803-B (IP65 Rated)**

- DC DL = Leadwires (2) 18" long (46 cm) AWG18, TYPE UL 1815
 - (IP69K Rated)* DN = Deutsch DT04-2P intergral molded (IP69K Rated)*
- Use mating plug EN 175301-803-B without diode bridge for DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

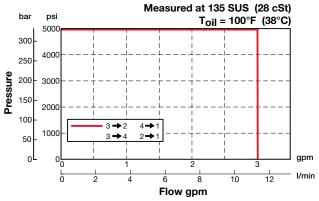
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits



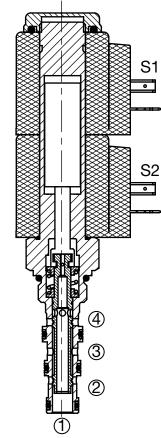
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH064-AS4	02600462	Aluminum, anodized	3500 psi (245 bar)	0.41 lbs (0.19 kg)
FH064-SS4	02600461	Steel, zinc plated	6000 psi (420 bar)	1.22 lbs (0.55 kg)

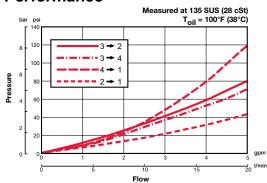
*Please refer to Line Bodies & Cavities section for details

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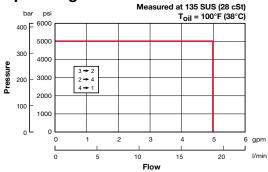
WK08E-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)

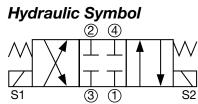


Performance



Operating Limits





Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK08E blocks flow at all ports. When coil S1 is energized the spool shifts and allows flow from port 1 to port 2 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

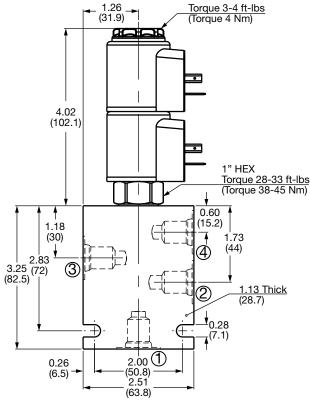
Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

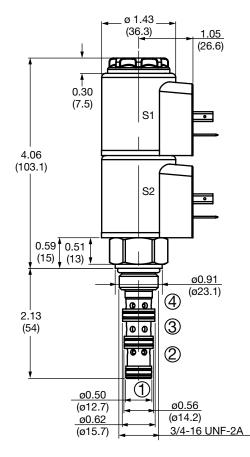
Detented version - twist again after pushing/pulling to hold position.

Features

- Push/pull type manual override button, detented manual override option.
- High flow capacity

opeemeations			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	5 gpm at 3000 psi (20 l/min@ 210 bar)		
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)		
Fluid Operating Temp Range	-20° to 248°F (-29° to 120°C)		
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Minimum Pull-in Current	75% of nominal amperage		
Typical Response Time (Varies with Pressure and Flow)	On: 30 to 60 ms Off: 20 to 40 ms		
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner per (ISO 4406)		
Installation	No orientation restrictions		
Cavity	FC08-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580088 Finisher: 02580089		
Cartridge Weight	0.6 lbs (0.27 kg)		
Coil Weight	2 x 0.42 lbs (2 x 0.19 kg)		
Cartridge Material	Steel with hardened work surfaces. Zinc plated solenoid tube surface. Buna N or Viton® o-rings Solid thermoplastic polyester back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton [®]	FS084-N P/N: 03071272 FS084-V P/N: 03071273		





All measurements in inches (mm). Subject to technical modifications

Model Code

WK08E-01-M-C-N-24 DN Valve Model **Override Option** (omit) = No manual override = Push/pull type, not detented М = Push/pull type, detented А **Body & Ports** С = Cartridge only AS6 = SAE-6 ports, aluminum body SS6 = SAE-6 ports, steel body Seals = Buna-N Ν = Viton® ٧ **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC = 36 VDC 36 = 110 VDC (only available with connector DG) 110 AC 24 24 VAC = 115 = 115 VAC 230 = 230 VAC **Coil Connector** = EN 175301-803-A DC DG

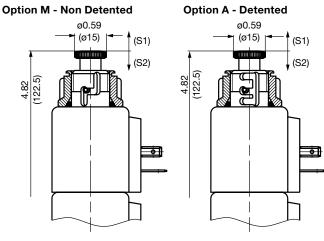
- DS = Dual spade (SAEJ858a)*
- DL
- Leadwires (2) 18" long (46 cm)*
 WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
- = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
- = Amp Junior Timer[™], molded, radial mount* DT
- = EN 175301-803-A AC AG

Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options

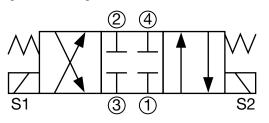


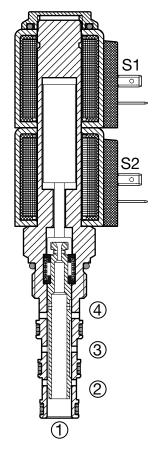
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

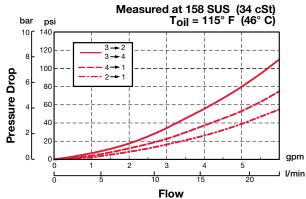
WK10E-01 Spool Type, Direct Acting Up to 6 gpm (23 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK10E blocks flow at all ports. When coil S1 is energized the spool shifts and allows flow from port 1 to port 2 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

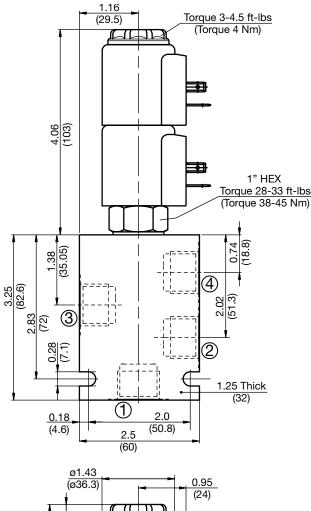
Detented version - twist again after pushing/pulling to hold position.

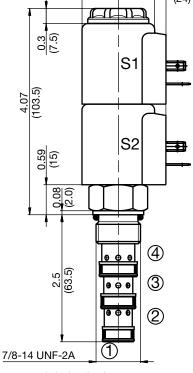
Features

• Push/pull type manual override button, detented manual override option.

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Operating Pressure	5000 psi (350 bar)		
Nominal Flow	6 gpm at 3000 psi (23 l/min at 210 bar) Consult factory for flow rating above 3000 psi (210 bar		
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Minimum Pull-in Current	90% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated β 10 ≥ 200.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.64 lbs (0.29 kg)		
Coil Weight	0.42 lbs (0.19 kg) - 2 coils required		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		







All measurements in inches (mm). Subject to technical modifications

Model Code

WK10E-01-M-C-N-24 DN Valve Model **Override Option** (omit) = No manual override = Push/pull type, not detented Μ = Push/pull type, detented А **Body & Ports** С = Cartridge only AS8 = SAE-8 ports, aluminum body SS8 = SAE-8 ports, steel body Seals = Buna-N Ν = Viton® ٧ **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC = 36 VDC 36 = 110 VDC (only available with connector DG) 110 AC 24 24 VAC = 115 = 115 VAC 230 = 230 VAC **Coil Connector** = EN 175301-803-A DC DG

- DS = Dual spade (SAEJ858a)*
- DL
- = Leadwires (2) 18" long (46 cm)*
 = WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
- = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
- = Amp Junior Timer[™], molded, radial mount* DT
- = EN 175301-803-A AC AG

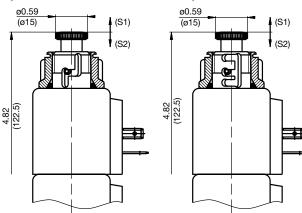
Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options

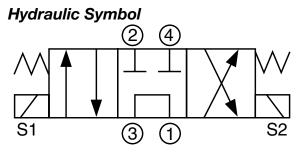
Option M - Non Detented Option A - Detented

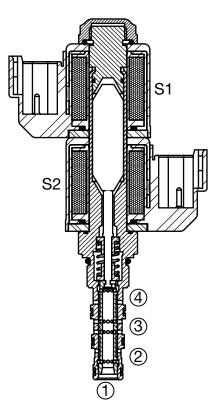


Standard Line Bodies*

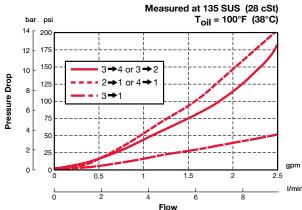
Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

WK06G-01 Spool Type, Direct Acting Up to 2 gpm (7.6 I/min) • 5000 psi (350 bar)





Performance



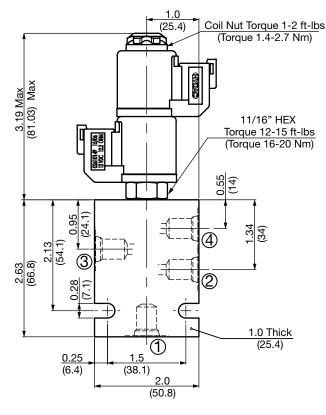
Description

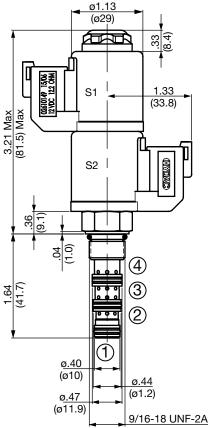
A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK06G allows flow from port 3 to port 1, while blocking flow at ports 2 and 4. When coil S1 is energized the spool shifts and allows flow from port 3 to port 2 and from port 4 to port 1. When coil S2 is energized the spool shifts and allows flow from port 3 to port 4 and from port 2 to port 1.

Specifications		
Operating Pressure	5000 psi (350 bar), 3000 psi (210 bar) Max Port 1	
Nominal Flow	See Operating Limits	
Internal Leakage	11.6 cu in/min. at 3000 psi and 135 SUS (190 cc/min at 207 bar and 28 cSt)	
Fluid Operating Temp Range	-20° to 248°F (-29° to 120°C)	
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)	
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage	
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC	
Min. Pull-in Current to Operate Valve	70% of nominal amperage	
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties	
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)	
Filtration	21/19/16 or cleaner per (ISO 4406)	
Installation	No orientation restrictions	
Cavity	FC06-4 (see Line Bodies & Cavities section)	
Cavity Tools	Rougher: 02582057 Finisher: 02582058	
Cartridge Weight	3.6 oz (102 grams)	
Coil Weight	3.1 oz (88 grams) each (2 required)	
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.	
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.	
Seal Kits Buna-N Viton [®]	FS064-N P/N: 02610188 FS064-V P/N: 02610189	





All measurements in inches (mm). Subject to technical modifications

Model Code

<u>WK06G-01 M-C-N-24 DN</u>

	<u>WK06G-01 M-C-N-24 DN</u>
Valve Mod	el
Override C	Option
	= No manual override
М	= Manual override, not detented
А	= Manual override, detented
Body & Po	rts
	= Cartridge only
AS4	= SAE-4 Ports, aluminum body
SS4	= SAE-4 Ports, steel body
Seals —	
N	= Buna-N
V	= Viton®
Coil Voltag	ae
	= No coil, cartridge only
DC 12	
	= 24 VDC
AC 115	= 105 VDC (only available with connector DG)
_230	= 205 VDC (only available with connector DG)
(All model 32	2-1329 coils are DC. AC models require an external diode bridge
mounted out	tside the coil)**
Coil Conne	ector —
	= EN 175301-803-B (IP65 Rated)**
DC DL	= Leadwires (2) - 18" long (46 cm) AWG18, TYPE UL 1815

- DL = Leadwires (2) 18" long (46 cm) AWG18, TYPE UL 1815 (IP69K Rated)*
- _DN = Deutsch DT04-2P intergral molded (IP69K Rated)* Use mating plug EN 175301-803-B without diode bridge for

DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

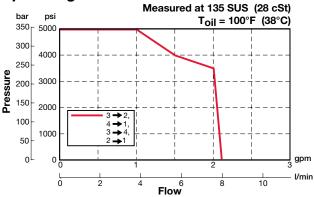
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits



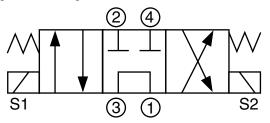
Standard Line Bodies*

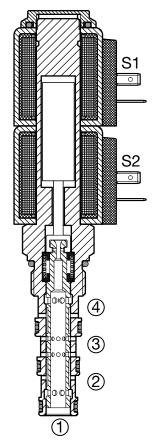
Code	Part No	Material	Pressure Rating	Weight
FH064-AS4	02600462	Aluminum, anodized	3500 psi (245 bar)	0.41 lbs (0.19 kg)
FH064-SS4	02600461	Steel, zinc plated	6000 psi (420 bar)	1.22 lbs (0.55 kg)

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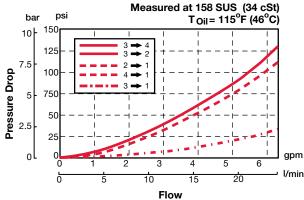
WK10G-01 Spool Type, Direct Acting Up to 6 gpm (23 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK10G allows flow from port 3 to port 1, while blocking flow at ports 2 and 4. When coil S1 is energized the spool shifts and allows flow from port 3 to port 2 and from port 4 to port 1. When coil S2 is energized the spool shifts and allows flow from port 3 to port 4 and from port 2 to port 1.

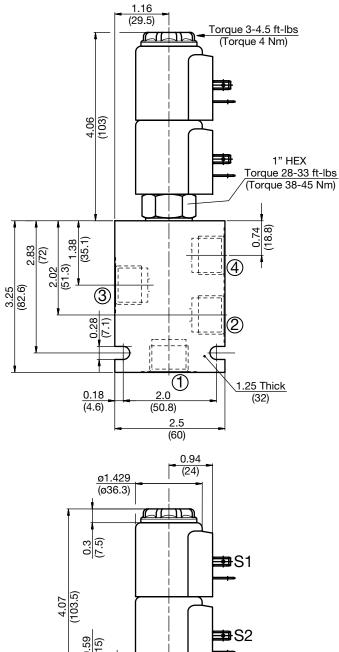
Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

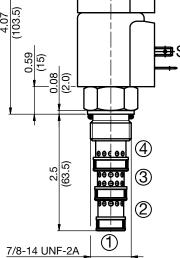
Detented version - twist again after pushing/pulling to hold position.

Features

• Push/pull type manual override button, detented manual override option.

epeenneationie			
Operating Pressure	5000 psi (350 bar)		
Nominal Flow	6 gpm at 3000 psi (23 l/min at 210 bar) Consult factory for flow rating above 3000 psi (210 bar)		
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Minimum Pull-in Current	90% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $\beta 10 \ge 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.64 lbs (0.29 kg)		
Coil Weight	0.42 lbs (0.19 kg) - 2 coils required		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		





All measurements in inches (mm). Subject to technical modifications

Model Code

DN

			<u>WK10G-01</u> - <u>M</u> -	<u>C-N-2</u>	<u>4 D</u>
	Valve	Mode	I		
	() N	Ч ́=	tion No manual override Push/pull type, not detented Push/pull type, detented		
		· & Port			
	(A	C = AS8 =	Cartridge only SAE-8 ports, aluminum body SAE-8 ports, steel body		
	Seals		Buna-N		
5		•	Viton®		
	DC 1 2) = 12 = 24 = 36 =	No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG)		
	1	115 =	24 VAC 115 VAC 230 VAC		
			etor EN 175301-803-A Dual spade (SAEJ858a)*		

- DL
- Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
- = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
- = Amp Junior Timer[™], molded, radial mount* DT
- AC AG = EN 175301-803-A

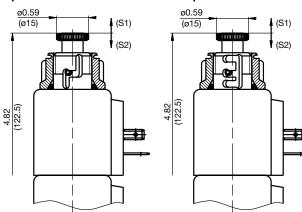
Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options

Option M - Non Detented Option A - Detented



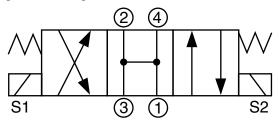
Standard Line Bodies*

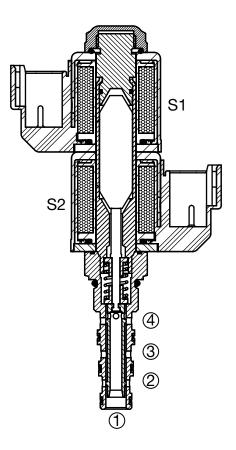
Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

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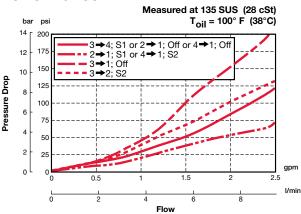
WK06H-01 Spool Type, Direct Acting Up to 2.4 gpm (9 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



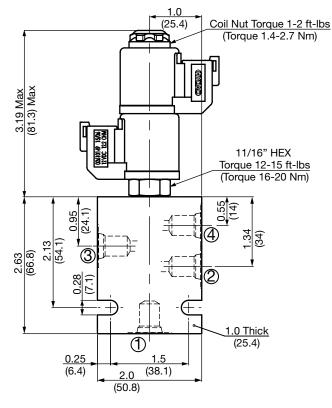
Description

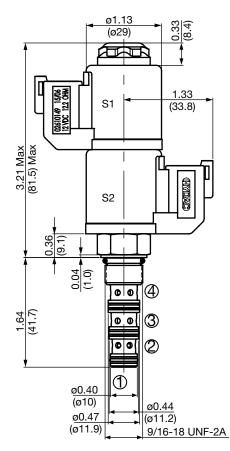
A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK06H allows flow to all ports. When coil S1 is energized the spool shifts and allows flow from port 2 to port 1 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

Operating Pressure	5000 psi (350 bar), 3000 psi (210 bar) Max Port 1
Nominal Flow	See Operating Limits
Internal Leakage	6.0 cu in/min. at 3000 psi and 135 SUS (100 cc/min at 207 bar and 28 cSt)
Fluid Operating Temp Range	-20° to 248°F (-29° to 120°C)
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC
Min. Pull-in Current to Operate Valve	70% of nominal amperage
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC06-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02582057 Finisher: 02582058
Cartridge Weight	3.6 oz (102 grams)
Coil Weight	3.1 oz (88 grams) each (2 required)
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.
Seal Kits Buna-N Viton [®]	FS064-N P/N: 02610188 FS064-V P/N: 02610189





All measurements in inches (mm). Subject to technical modifications

Model Code

WK06H-01 M-C-N-24 DN

	<u>WK06H-01 M-C-N-24 D</u>
Valve Mo	del
Override	Option
blanl	k = No manual override
М	 Manual override, not detented
А	
Body & P	orts
C	= Cartridge only
AS4	= SAE-4 Ports, aluminum body
SS4	= SAE-4 Ports, steel body
Seals —	
Ν	= Buna-N
V	= Viton®
Coil Volta	age
0	 No coil, cartridge only
DC 12	= 12 VDC
_24	= 24 VDC
AC 115	= 105 VDC (only available with connector DG)
230	= 205 VDC (only available with connector DG)
•	32-1329 coils are DC. AC models require an external diode bridge utside the coil)**
Coil Con	nector
	= EN 175301-803-B (IP65 Rated)**
DC DL	

- (IP69K Rated)*
- DN = Deutsch DT04-2P intergral molded (IP69K Rated)* Use mating plug EN 175301-803-B without diode bridge for
- DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

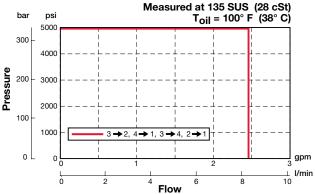
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

Operating Limits



Standard Line Bodies*

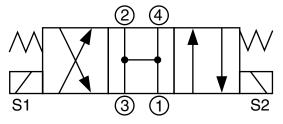
Code	Part No	Material	Pressure Rating	Weight
FH064-AS4	02600462	Aluminum, anodized	3500 psi (245 bar)	0.41 lbs (0.19 kg)
FH064-SS4	02600461	Steel, zinc plated	6000 psi (420 bar)	1.22 lbs (0.55 kg)

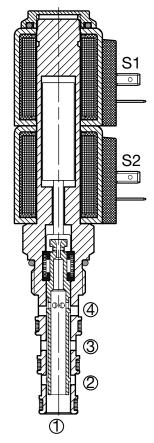
*Please refer to Line Bodies & Cavities section for details

INNOVATIVE FLUID POWER (HYDAD) 241

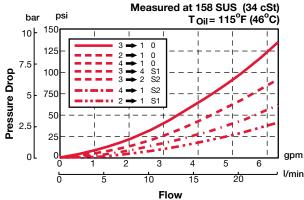
WK10H-01 Spool Type, Direct Acting Up to 6 gpm (23 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK10H allows flow to all ports. When coil S1 is energized the spool shifts and allows flow from port 1 to port 2 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

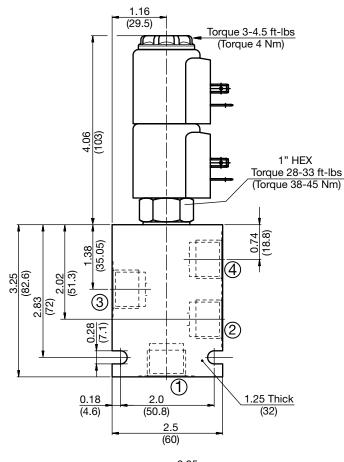
Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

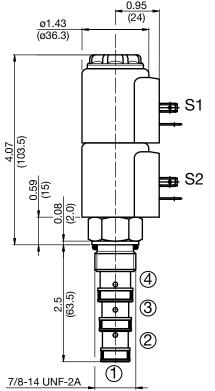
Detented version - twist again after pushing/pulling to hold position.

Features

• Push/pull type manual override button, detented manual override option.

epeenneationie	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	6 gpm at 3000 psi (23 l/min at 210 bar) Consult factory for flow rating above 3000 psi (210 bar)
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Minimum Pull-in Current	85% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.
Installation	No orientation restrictions
Cavity	FC10-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580248 Finisher: 02580249
Cartridge Weight	0.64 lbs (0.29 kg)
Coil Weight	0.42 lbs (0.19 kg) - 2 coils required
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275





All measurements in inches (mm). Subject to technical modifications

Model Code

WK10H-01-M-C-N-24 DN

		<u>/-11-4</u>	
Valve Mo	del		
Override	Option		
	 No manual override 		
Body & P	orts		
C AS8	 Cartridge only SAE-8 ports, aluminum body SAE-8 ports, steel body 		
Seals —			
	= Buna-N = Viton®		
Coil Volta	ae		
0 DC 12 24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG) 		
	= 24 VAC = 115 VAC = 230 VAC		
Coil Conr			
DC DG	= EN 175301-803-A		

- = Dual spade (SAEJ858a)* DS
- DL
- Leadwires (2) 18" long (46 cm)*
 WeatherPak™ on leadwires 9.5" long (24 cm)* DW
- Deutsch™ DT04-2P, molded, axial (IP69K Rated)*
 Amp Junior Timer™, molded, radial mount* DN
- DT
- = EN 175301-803-A AC AG

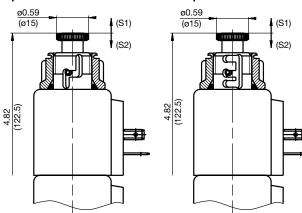
Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options

Option M - Non Detented Option A - Detented

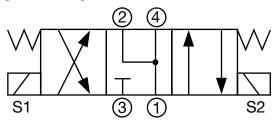


Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

WK06J-01 Spool Type, Direct Acting Up to 3 gpm (11.4 I/min) • 5000 psi (350 bar)

Hydraulic Symbol

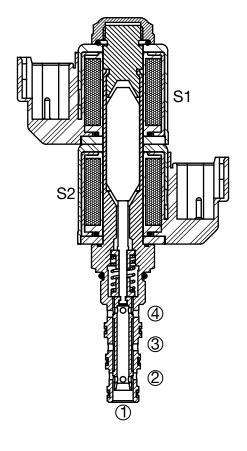


Description

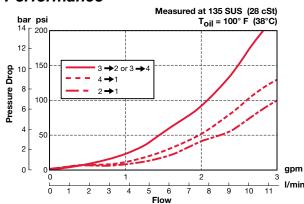
A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

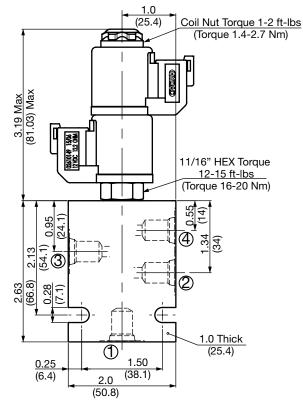
When de-energized the WK06J allows flow from cylinder ports 2 and 4 to port 1, port 3 is blocked. When coil S1 is energized the spool shifts and allows flow from port 2 to port 1 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

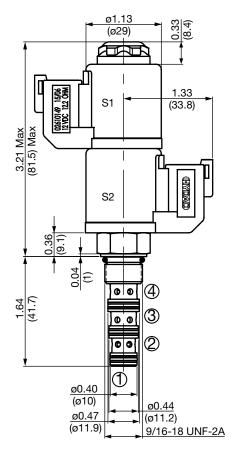


Performance



Specifications	
Operating Pressure	5000 psi (350 bar), 3000 psi (210 bar) Max Port 1
Nominal Flow	See Operating Limits
Internal Leakage	11.6 cu in/min. at 3000 psi and 158 SUS (190 cc/min at 250 bar and 34 cSt)
Fluid Operating Temp. Range	-20° to 248°F (-29° to 120° C)
Ambient Temperature Range	-20° to +140°F (-29° to +60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	984 mA at 12VDC; 492 mA at 24VDC
Min. Pull-in Current to Operate Valve	70% of nominal amperage
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC06-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02582057 Finisher: 02582058
Cartridge Weight	3.6 oz (102 grams)
Coil Weight	3.1 oz (88 grams) each (2 required)
Cartridge Material	Steel with hardened work surfaces. Zinc plated exposed surfaces. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.
Coil Material	Class N, 200°C high temperature magnet wire, steel shell, polyester encapsulation.
Seal Kits Buna-N Viton®	FS064-N P/N: 02610188 FS064-V P/N: 02610189





All measurements in inches (mm). Subject to technical modifications

Model Code

WK06J-01 M-C-N-24 DN Valve Model **Override Option** blank = No manual override = Manual override, not detented Μ = Manual override, detented Α **Body & Ports** С = Cartridge only AS4 = SAE-4 Ports, aluminum body = SAE-4 Ports, steel body SS4 Seals = Buna-N Ν V Viton® = **Coil Voltage** 0 = No coil, cartridge only DC 12 = 12 VDC 24 = 24 VDC AC 115 = 105 VDC (only available with connector DG) = 205 VDC (only available with connector DG) 230 (All model 32-1329 coils are DC. AC models require an external diode bridge mounted outside the coil)** **Coil Connector** DG = EN 175301-803-B (IP65 Rated)** DC DL =

- Leadwires (2) 18" long (46 cm) AWG18, TYPE UL 1815 (IP69K Rated)*
- = Deutsch DT04-2P intergral molded (IP69K Rated)* DN Use mating plug EN 175301-803-B without diode bridge for

DC voltages P/N 02600570

Use mating plug EN 175301-803-B w/diode bridge for AC voltages P/N 02600582

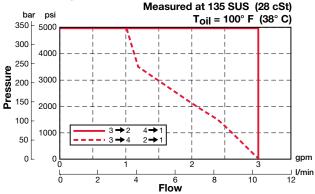
Coil Model 32-1329

For other coil connector types consult factory

** Mating Plugs sold separately

*Coils with internal transient suppression diode are available, consult factory.

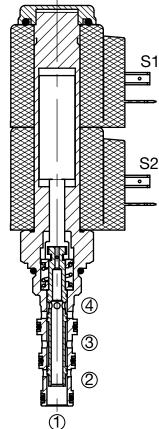
Operating Limits



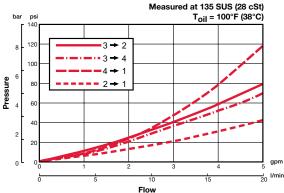
Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH064-AS4	02600462	Aluminum, anodized	3500 psi (245 bar)	0.41 lbs (0.19 kg)
FH064-SS4	02600461	Steel, zinc plated	6000 psi (420 bar)	1.22 lbs (0.55 kg)

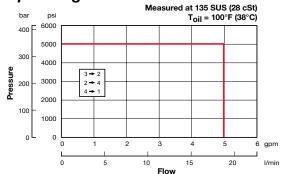
WK08J-01 Spool Type, Direct Acting Up to 5 gpm (19 I/min) • 5000 psi (350 bar)



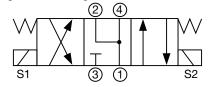
Performance



Operating Limits



Hydraulic Symbol



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK08J allows flow from cylinder ports 2 and 4 to port 1, port 3 is blocked. When coil S1 is energized the spool shifts and allows flow from port 2 to port 1 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

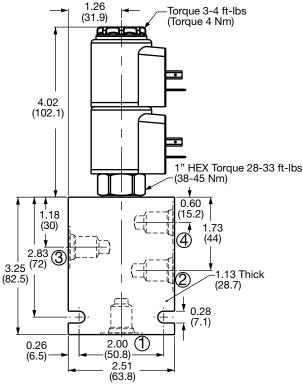
Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

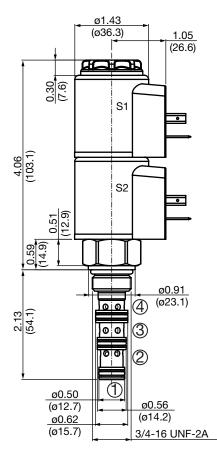
Detented version - twist again after pushing/pulling to hold position.

Features

- Push/pull type manual override button, detented manual override option.
- High flow capacity

Specifications	
Operating Pressure	5000 psi (350 bar)
Nominal Flow	5 gpm at 3000 psi (20 l/min@ 210 bar)
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)
Fluid Operating Temp Range	-20° to 248°F (-29° to 120°C)
Ambient Temperature Range	-20° to 140°F (-29° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Minimum Pull-in Current	75% of nominal amperage
Typical Response Time (Varies with Pressure and Flow)	On: 30 to 60 ms Off: 20 to 40 ms
Fluid Compatibility	Mineral-Based or Synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner per (ISO 4406)
Installation	No orientation restrictions
Cavity	FC08-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580088 Finisher: 02580089
Cartridge Weight	0.6 lbs (0.27 kg)
Coil Weight	2 x 0.42 lbs (2 x 0.19 kg)
Cartridge Material	Steel with hardened work surfaces. Zinc plated solenoid tube surface. Buna N or Viton [®] o-rings. Solid thermoplastic polyester back-up rings.
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton [®]	FS084-N P/N: 03071272 FS084-V P/N: 03071273





All measurements in inches (mm). Subject to technical modifications

Model Code

WK08J-01-M-C-N-24 DN Valve Model **Override Option** (omit) = No manual override = Push/pull type, not detented М = Push/pull type, detented Α **Body & Ports** С = Cartridge only AS6 = SAE-6 ports, aluminum body SS6 = SAE-6 ports, steel body Seals = Buna-N Ν = Viton® ٧ **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC = 36 VDC 36 = 110 VDC (only available with connector DG) 110 AC 24 = 24 VAC 115 = 115 VAC 230 = 230 VAC **Coil Connector**

- = EN 175301-803-A DC DG
 - DS = Dual spade (SAEJ858a)*
 - DL
 - Leadwires (2) 18" long (46 cm)*
 WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
 - = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
 - = Amp Junior Timer[™], molded, radial mount* DT
- = EN 175301-803-A AC AG

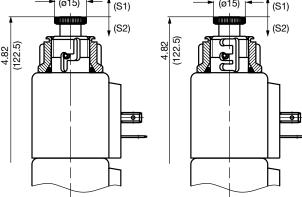
Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory

Manual Override Options

Option M - Non Detented Option A - Detented ø0.59 ø0.59 (ø15) (ø15) (S1)

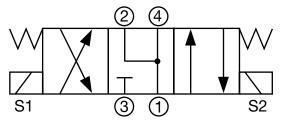


Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH084-AS6	03011404	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH084-SS6	00563381	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

WK10J-01 Spool Type, Direct Acting Up to 6 gpm (23 I/min) • 5000 psi (350 bar)

Hydraulic Symbol



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK10J allows flow from cylinder ports 2 and 4 to port 1, port 3 is blocked. When coil S1 is energized the spool shifts and allows flow from port 1 to port 2 and from port 3 to port 4. When coil S2 is energized the spool shifts and allows flow from port 4 to port 1 and from port 3 to port 2.

Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

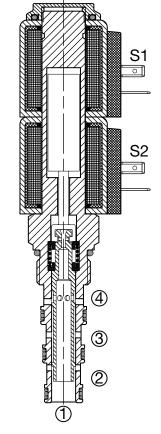
Detented version - twist again after pushing/pulling to hold position.

Features

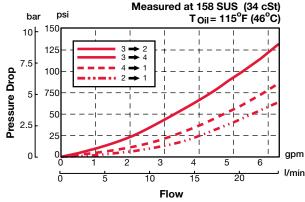
• Push/pull type manual override button, detented manual override option.

Specifications

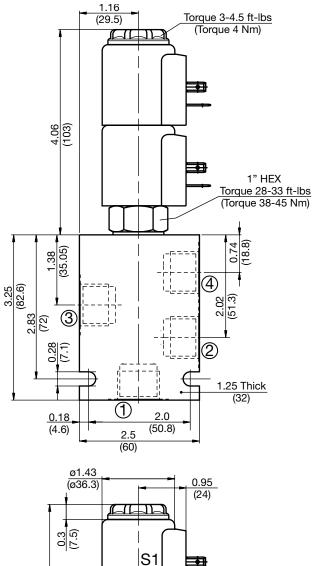
Operating Pressure	5000 psi (350 bar)
Nominal Flow	6 gpm at 3000 psi (23 l/min at 210 bar) Consult factory for flow rating above 3000 psi (210 bar)
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC
Minimum Pull-in Current	90% of nominal @ 5000 psi (350 bar)
Fluid Compatibility	Mineral-based or synthetics with lubricating properties
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.
Installation	No orientation restrictions
Cavity	FC10-4 (see Line Bodies & Cavities section)
Cavity Tools	Rougher: 02580248 Finisher: 02580249
Cartridge Weight	0.64 lbs (0.29 kg)
Coil Weight	0.42 lbs (0.19 kg) - 2 coils required
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton® o-rings. PTFE back-up rings.
Coil Material	Class H high temperature magnetwire, steel shell, polyamid encapsulation.
Seal Kits Buna-N Viton [®]	FS104-N P/N: 03051912 FS104-V P/N: 03071275



Performance







S2

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Model Code

Valve Mod	lel ———	
Override (Option	
(omit) M A	 No manual override Push/pull type, not detented Push/pull type, detented 	
Body & Po	orts —]
	 Cartridge only SAE-8 ports, aluminum body SAE-8 ports, steel body 	
Seals —		
N V	= Buna-N = Viton®	
Coil Volta	ge	
24 36	 No coil, cartridge only 12 VDC 24 VDC 36 VDC 110 VDC (only available with connector DG) 	
	= 24 VAC = 115 VAC = 230 VAC	

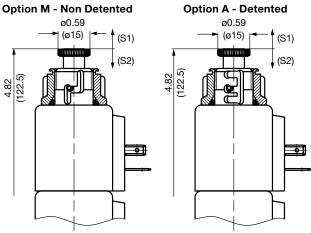
- DS
- DL
- = Dual spade (SAEJ858a)*
 = Leadwires (2) 18" long (46 cm)*
 = WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
- Deutsch™ DT04-2P, molded, axial (IP69K Rated)*
 Amp Junior Timer™, molded, radial mount* DN
- DT
- AC AG = EN 175301-803-A

Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options



Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)

*Please refer to Line Bodies & Cavities section for details

4 3 2

7/8-14 UNF-2A All measurements in inches (mm). Subject to technical modifications

4.07 (103.5)

0.59 (15)

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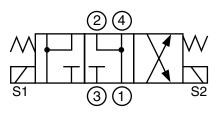
2.5 (63.5)

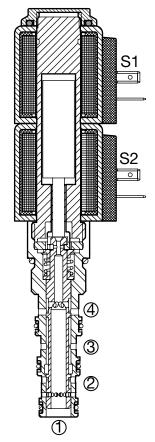
(1)

INNOVATIVE FLUID POWER (HYDAC) 249

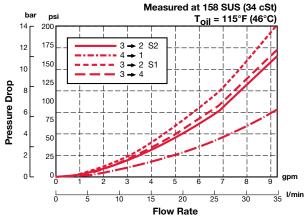
WK10T-01 Spool Type, Direct Acting Up to 6 gpm (23 I/min) • 5000 psi (350 bar)

Hydraulic Symbol





Performance



Description

A screw-in cartridge, solenoid operated, 4-way, 3 position, direct acting, spool type valve.

Operation

When de-energized the WK10T allows flow from cylinder ports 2 and 4 to port 1, port 3 is blocked. When coil S1 is energized the spool shifts and allows flow from port 3 to port 2 and port 4. When coil S2 is energized the spool shifts and allows flow from port 3 to port 4 and from port 2 to port 1.

Operation of Manual Override Option: To override, twist knurled screw and push or pull to shift spool.

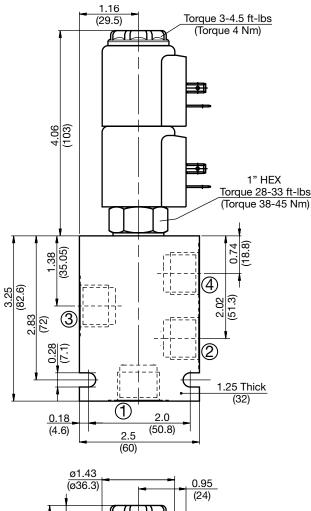
Detented version - twist again after pushing/pulling to hold position.

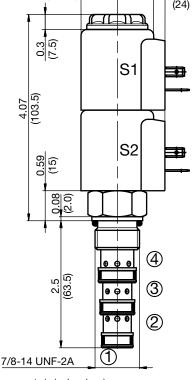
Features

• Push/pull type manual override button, detented manual override option.

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Operating Pressure	5000 psi (350 bar)		
Nominal Flow	6 gpm at 3000 psi (23 l/min at 210 bar) Consult factory for flow rating above 3000 psi (210 bar)		
Internal Leakage	10 cu in/min. at 3000 psi and 158 SUS (160 cc/min at 210 bar and 34 cSt)		
Fluid Operating Temp. Range	-4° to 248°F (-20° to 120°C) (Consult factory for usage at temp. outside range.)		
Ambient Temperature Range	-4° to 140°F (-20° to 60°C)		
Coil Duty Rating	Continuous from 85% to 115% of nominal voltage		
Current Draw at 68°F (20°C)	1.5 A at 12VDC; 0.8 A at 24VDC		
Minimum Pull-in Current	85% of nominal @ 5000 psi (350 bar)		
Fluid Compatibility	Mineral-based or synthetics with lubricating properties		
Viscosity	50 to 2000 SUS (7.4 to 420 cSt)		
Filtration	21/19/16 or cleaner (per ISO 4406). Use with filter rated $B10 ≥ 200$.		
Installation	No orientation restrictions		
Cavity	FC10-4 (see Line Bodies & Cavities section)		
Cavity Tools	Rougher: 02580248 Finisher: 02580249		
Cartridge Weight	0.64 lbs (0.29 kg)		
Coil Weight	0.42 lbs (0.19 kg) - 2 coils required		
Cartridge Material	Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N or Viton [®] o-rings. PTFE back-up rings.		
Coil Material	Class N high temperature magnet wire, steel shell, polyamid encapsulation.		
Seal Kits Buna-N Viton®	FS104-N P/N: 03051912 FS104-V P/N: 03071275		







All measurements in inches (mm). Subject to technical modifications

Model Code

WK10T-01-M-C-N-24 DN Valve Model **Override Option** (omit) = No manual override = Push/pull type, not detented Μ = Push/pull type, detented А **Body & Ports** С = Cartridge only AS8 = SAE-8 ports, aluminum body SS8 = SAE-8 ports, steel body Seals = Buna-N Ν = Viton® ٧ **Coil Voltage** = No coil, cartridge only 0 DC 12 = 12 VDC 24 = 24 VDC = 36 VDC 36 = 110 VDC (only available with connector DG) 110 AC 24 24 VAC = 115 = 115 VAC 230 = 230 VAC **Coil Connector** = EN 175301-803-A DC DG

- DS = Dual spade (SAEJ858a)*
- DL
- = Leadwires (2) 18" long (46 cm)*
 = WeatherPak[™] on leadwires 9.5" long (24 cm)* DW
- = Deutsch™ DT04-2P, molded, axial (IP69K Rated)* DN
- = Amp Junior Timer[™], molded, radial mount* DT
- = EN 175301-803-A AC AG

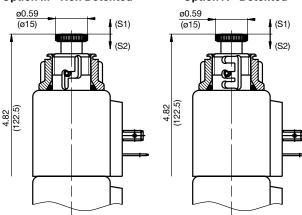
Coil Model 40-1836, 2 per assembly

For other coil connector types consult factory

*Coils with internal diode are available, consult factory.

Manual Override Options

Option M - Non Detented Option A - Detented



Standard Line Bodies*

Code	Part No	Material	Pressure Rating	Weight
FH104-AS8	03038110	Aluminum, anodized	3500 psi (245 bar)	0.72 lb (0.33 kg)
FH104-SS8	03037868	Steel, zinc plated	6000 psi (420 bar)	2.12 lb (0.96 kg)