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| 991728 | XMD Series CAN-to-USB hardware interface1 |
|-----------|-------------------------------------------------------------------------------------|
| LOFOZ | Pilot-to-close, spring-biased open, unbalanced poppet logic element with position |
| LOHOZ | Pilot-to-close, spring-biased open, unbalanced poppet logic element with position |
| LOJOZ | Pilot-to-close, spring-biased open, unbalanced poppet logic element with position |
| LOKOZ | Pilot-to-close, spring-biased open, unbalanced poppet logic element with position |
| LKFCZ | Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position |
| LKHCZ | Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position |
| LKJCZ | Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position |
| LOFCZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position |
| LOHCZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position |
| LOJCZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position |
| LOKCZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position |
| LOECZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with metering |
| LOGCZ | Pilot-to-close, spring-biased closed, unbalanced poppet logic element with metering |
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| 991711600 | XMD Series, 12-pin Deutsch prototype cable, single-output |
| 991712300 | XMD Series, 12-pin Deutsch prototype cable, double-output |
| 991712600 | XMD Series, 12-pin Deutsch prototype cable, double-output |
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| 991713060 | XMD Series, 2-pin Deutsch prototype cable |
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| 740214L | 740 Series, 14 VDC, low-power coil with ISO/DIN 43650, Form A connector without |
| 740214LD | 740 Series, 14 VDC, low-power coil with ISO/DIN 43650, Form A connector with TVS47 Diode |
| 740223 | 740 Series, 230 VAC 50/60 Hz, high-power coil with ISO/DIN 43650, Form A |
| 740223L | 740 Series, 230 VAC 50/60 Hz, low-power coil with ISO/DIN 43650, Form A connector |
| 740224 | 740 Series, 24 VDC high-power coil with ISO/DIN 43650, Form A connector without |
| 740224D | 740 Series, 24 VDC high-power coil with ISO/DIN 43650, Form A connector with TVS51 Diode |
| 740224L | 740 Series, 24 VDC, low-power coil with ISO/DIN 43650, Form A connector without |
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| 740614L | 740 Series, 14 VDC, low-power coil with kit for AMP Junior Timer connector adapter |
|----------|--------------------------------------------------------------------------------------|
| 740614LD | 740 Series, 14 VDC, low-power coil with kit for AMP Junior Timer connector adapter |
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| 740624LD | 740 Series, 24 VDC, low-power coil with kit for AMP Junior Timer connector adapter |
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| 740712D | 740 Series, 12 VDC, high-power coil with kit for twin leads connector adapter and |
| 740712L | 740 Series, 12 VDC, low-power coil with kit for twin leads connector adapter and |
| 740712LD | 740 Series, 12 VDC, low-power coil with kit for twin leads connector adapter and TVS |
| 740714 | 740 Series, 14 VDC, high-power coil with kit for twin leads connector adapter and |
| 740714D | 740 Series, 14 VDC, high-power coil with kit for twin leads connector adapter and |
| 740714L | 740 Series, 14 VDC, low-power coil with kit for twin leads connector adapter and |
| 740714LD | 740 Series, 14 VDC, low-power coil with kit for twin leads connector adapter and TVS |
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| 740724D | 740 Series, 24 VDC, high-power coil with kit for twin leads connector adapter and |
| 740724L | 740 Series, 24 VDC, low-power coil with kit for twin leads connector adapter and |



| 740724LD | 740 Series, 24 VDC, low-power coil with kit for twin leads connector adapter and TVS85 Diode |
|----------|----------------------------------------------------------------------------------------------|
| 740728 | 740 Series, 28 VDC, high-power coil with kit for twin leads connector adapter and |
| 740728D | 740 Series, 28 VDC, high-power coil with kit for twin leads connector adapter and |
| 740728L | 740 Series, 28 VDC, low-power coil with kit for twin leads connector adapter and |
| 740728LD | 740 Series, 28 VDC, low-power coil with kit for twin leads connector adapter and TVS |
| 740812 | 740 Series, 12 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740812D | 740 Series, 12 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740812L | 740 Series, 12 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740812LD | 740 Series, 12 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740814 | 740 Series, 14 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740814D | 740 Series, 14 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740814L | 740 Series, 14 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740814LD | 740 Series, 14 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740824 | 740 Series, 24 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740824D | 740 Series, 24 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740824L | 740 Series, 24 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740824LD | 740 Series, 24 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740828 | 740 Series, 28 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740828D | 740 Series, 28 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740828L | 740 Series, 28 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |
| 740828LD | 740 Series, 28 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector |



| 740912 | 740 Series, 12 VDC, high-power coil with Deutsch DT04-2P connector without TVS |
|-----------|--------------------------------------------------------------------------------------------|
| 740912D | 740 Series, 12 VDC, high-power coil with Deutsch DT04-2P connector with TVS |
| 740912L | 740 Series, 12 VDC, low-power coil with Deutsch DT04-2P connector without TVS |
| 740912LD | 740 Series, 12 VDC, low-power coil with Deutsch DT04-2P connector with TVS |
| 740914 | 740 Series, 14 VDC, high-power coil with Deutsch DT04-2P connector without TVS110 Diode |
| 740914D | 740 Series, 14 VDC, high-power coil with Deutsch DT04-2P connector with TVS111 Diode |
| 740914L | 740 Series, 14 VDC, low-power coil with Deutsch DT04-2P connector without TVS |
| 740914LD | 740 Series, 14 VDC, low-power coil with Deutsch DT04-2P connector with TVS113 Diode |
| 740924 | 740 Series, 24 VDC, high-power coil with Deutsch DT04-2P connector without TVS114 Diode |
| 740924D | 740 Series, 24 VDC, high-power coil with Deutsch DT04-2P connector with TVS |
| 740924L | 740 Series, 24 VDC, low-power coil with Deutsch DT04-2P connector without TVS |
| 740924LD | 740 Series, 24 VDC, low-power coil with Deutsch DT04-2P connector with TVS |
| 740928 | 740 Series, 28 VDC, high-power coil with Deutsch DT04-2P connector without TVS |
| 740928D | 740 Series, 28 VDC, high-power coil with Deutsch DT04-2P connector with TVS |
| 740928L | 740 Series, 28 VDC, low-power coil with Deutsch DT04-2P connector without TVS |
| 740928LD | 740 Series, 28 VDC, low-power coil with Deutsch DT04-2P connector with TVS |
| 747JM11BD | 747 Series, 115 VAC hazardous location coil with 180 Deg M20 x 1.5 connector |
| 747JM11CD | 747 Series, 115 VAC hazardous location coil with 90 Deg M20 x 1.5 connector |
| 747JM12BD | 747 Series, 12 VDC hazardous location coil with 180 Deg M20 x 1.5 connector |
| 747JM12CD | 747 Series, 12 VDC hazardous location coil with 90 Deg M20 x 1.5 connector - ATEX, |
| 747JM23BD | 747 Series, 230 VAC hazardous location coil with 180 Deg M20 x 1.5 connector |



| 747JM23CD | 747 Series, 230 VAC hazardous location coil with 90 Deg M20 x 1.5 connector |
|-----------|--------------------------------------------------------------------------------------------------|
| 747JM24BD | 747 Series, 24 VDC hazardous location coil with 180 Deg M20 x 1.5 connector |
| 747JM24CD | 747 Series, 24 VDC hazardous location coil with 90 Deg M20 x 1.5 connector - ATEX,136 IECEx, CSA |
| 747JN11BD | 747 Series, 115 VAC hazardous location coil with 180 Deg 1/2" NPT connector |
| 747JN11CD | 747 Series, 115 VAC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX,140 IECEx, CSA |
| 747JN12BD | 747 Series, 12 VDC hazardous location coil with 180 Deg 1/2" NPT connector |
| 747JN12CD | 747 Series, 12 VDC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX,142 IECEx, CSA |
| 747JN23BD | 747 Series, 230 VAC hazardous location coil with 180 Deg 1/2" NPT connector |
| 747JN23CD | 747 Series, 230 VAC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX,146 IECEx, CSA |
| 747JN24BD | 747 Series, 24 VDC hazardous location coil with 180 Deg 1/2" NPT connector |
| 747JN24CD | 747 Series, 24 VDC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX,149 IECEx, CSA |
| 760211 | 115 VAC 50/60 Hz coil with ISO/DIN 43650, Form A |
| 760212 | 12 VDC coil with ISO/DIN 43650, Form A |
| 760223 | 230 VAC 50/60 Hz coil with ISO/DIN 43650, Form A |
| 760224 | 24 VDC coil with ISO/DIN 43650, Form A |
| 769212 | 12 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode - 13mm, |
| 769224 | 24 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode - 13mm, |
| 769912D | 12 VDC coil with Deutsch DT04-2P connector with TVS Diode - 13mm, common |
| 769924D | 24 VDC coil with Deutsch DT04-2P connector with TVS Diode - 13mm, common |
| 770211 | 115 VAC 50/60 Hz coil with ISO/DIN 43650, Form A connector with TVS |
| 770212 | 12 VDC coil with ISO/DIN 43650, Form A connector with TVS |



| 770014 | |
|-----------|--------------------------------------------------------------------------------------------------|
| 770214 | 14 VDC coil with ISO/DIN 43650, Form A connector with TVS |
| 770214N | 14 VDC coil with ISO/DIN 43650, Form A connector without TVS |
| 770223 | 230 VAC 50/60 Hz coil with ISO/DIN 43650, Form A connector with TVS |
| 770224 | 24 VDC coil with ISO/DIN 43650, Form A connector with TVS |
| 770228 | 28 VDC coil with ISO/DIN 43650, Form A connector with TVS |
| 770912 | 12 VDC coil with Deutsch DT04-2P connector with TVS |
| 770912N | 12 VDC coil with Deutsch DT04-2P connector without TVS |
| 770914 | 14 VDC coil with Deutsch DT04-2P connector with TVS |
| 770914N | 14 VDC coil with Deutsch DT04-2P connector without TVS |
| 770924 | 24 VDC coil with Deutsch DT04-2P connector with TVS |
| 770924N | 24 VDC coil with Deutsch DT04-2P connector without TVS |
| 770928 | 28 VDC coil with Deutsch DT04-2P connector with TVS |
| 777HN24AA | 24 VDC explosion proof coil, twin leads, 1/2" NPT conduit connector, ATEX and |
| 777HN24AB | 24 VDC explosion proof coil, twin leads, 1/2" NPT conduit connector, CSA certified (C175 and US) |
| 778212 | 778 Series, 12 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode, |
| 778224 | 778 Series, 24 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode, |
| 778912D | 778 Series, 12 VDC coil with Deutsch DT04-2P connector with TVS Diode, common |
| 778924D | 778 Series, 24 VDC coil with Deutsch DT04-2P connector with TVS Diode, common |
| 779212 | 12 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode - 19mm, |
| 779224 | 24 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode - 19mm, |
| 779912D | 12 VDC coil with Deutsch DT04-2P connector with TVS Diode - 19mm, common |



| 779924D | 24 VDC coil with Deutsch DT04-2P connector with TVS Diode - 19mm, common |
|-----------|-------------------------------------------------------------------------------|
| 780712D | 780 Series, 12 VDC coil with twin leads connector and TVS Diode - common |
| 780724D | 780 Series, 24 VDC coil with twin leads connector and TVS Diode - common |
| 780912D | 780 Series, 12 VDC coil with Deutsch DT04-2P connector and TVS Diode - common |
| 780924D | 780 Series, 24 VDC coil with Deutsch DT04-2P connector and TVS Diode - common |
| 7902B12V | 12 VDC coil with embedded proportional IR amplifier, voltage |
| 7902B24A | 24 VDC coil with embedded proportional IR amplifier, current |
| 7902B24V | 24 VDC coil with embedded proportional IR amplifier, voltage |
| 7902C24V | 24 VDC coil with embedded proportional IR amplifier, voltage |
| 7902D24V | 24 VDC coil with embedded proportional IR amplifier, voltage |
| 7904A12V | 12 VDC coil with embedded proportional IR amplifier, voltage |
| 7904A24A | 24 VDC coil with embedded proportional IR amplifier, current |
| 7904A24V | 24 VDC coil with embedded proportional IR amplifier, voltage |
| 7904E12V | 12 VDC coil with IR embedded power |
| 7904E24V | 24 VDC coil with IR embedded power |
| 990770006 | 770 Series - Viton, coil seal |
| 991700 | Hand Held Programmer |
| 991704 | USB infrared cable |
| 991740001 | XMD Series, high-power coil clip kit201 |
| 991740002 | XMD Series, low-power coil clip202 kit |
| 991747 | 770 Series to 740 Series coil adapter sleeve |



| 991770001 | XMD Series, 770 Series coil | 204 |
|-----------|--------------------------------------------------------------------------------|-----|
| CXFHZ | Free flow nose to side check valve with positionswitch | 205 |
| CXHHZ | Free flow nose to side check valve with positionswitch | 206 |
| XMD-01 | Configurable single-output driver used with proportional and solenoid-operated | 207 |
| XMD-02 | Configurable double-output driver used with proportional and solenoid-operated | 208 |



| Series | Ports | Cavities |
|------------------------------------------------------------------------|------------------------------|-----------------|
| Series Z Cartridges /8-24 UNF Cartridge Thread mm Valve Hex Size | 3-Port | T-382A |
| 1 - 14 Nm Valve Installation Torque | | |
| Series P Cartridges | 2-Port | T-8A |
| M16 Cartridge Thread | 2-Port (Deep) | T-8DP |
| 22.2 mm Valve Hex Size | 3-Port | T-9A |
| 7 - 33 Nm Valve Installation Torque | | |
| Series 0 Cartridges | 2-Port | T-162A |
| • | 2-Port (Deep) | T-162DP |
| /16 Cartridge Thread 9.1 mm Valve Hex Size | 3-Port | T-150A |
| 25.4 mm Valve Hex Size | 3-Port | T-163A |
| 27 - 33 Nm Valve Installation Torque | 4-Port | T-30A |
| Series 0C Cartridges | 4-Port (Common) | SC-08-04 |
| 8/4-16 UNF Cartridge Thread | | |
| 22,2 mm Valve Hex Size | | |
| 9-22 lbf ft Valve Installation Torque | | |
| Series 1 Cartridges | 2-Port | T-10A |
| M20 Cartridge Thread | 2-Port | T-13A |
| 22.2 mm Valve Hex Size | 3-Port | T-11A |
| 1 - 47 Nm Valve Installation Torque | 4-Port | T-21A |
| | 4-Port 6-Port | T-31A T-61A |
| Series 1C Cartridges | 2-Port (Common) | SC-10-02 |
| 7/8-14 UNF Cartridge Thread | 4-Port (Common) | SC-10-04 |
| 25.4 mm Valve Hex Size | | |
| 3-26 lbf ft Valve Installation Torque | | |
| Series 2 Cartridges | 2-Port | T-3A |
| I"-14 UNS Cartridge Thread | 2-Port | T-5A |
| 28,6 mm Valve Hex Size | 3-Port | T-2A |
| 51 - 68 Nm Valve Installation Torque | 4-Port | T-22A |
| · | 4-Port 4-Port (Dual path) | T-32A T-52AD |
| | 6-Port | T-52AD T-52A |
| | 6-Port | T-62A |
| | 2-Port | T-16A |
| Series 3 Cartridges | 3-Port | T-17A |
| | 4-Port | T-23A |
| 136 Cartridge Thread | 4-Port | T-33A |
| 1.8 mm Valve Hex Size | 4-Port (Dual path) | T-53AD |
| | 6-Port | T-53A |
| 81,8 mm Valve Hex Size 203 - 217 Nm Valve Installation Torque | | |
| | 6-Port | T-63A |
| | | |

41,3 mm Valve Hex Size 474 - 508 Nm Valve Installation Torque

| З-Роп | I-19A |
|--------------------|--------|
| 3-Port (Undercut) | T-19AU |
| 4-Port | T-24A |
| 4-Port (Undercut) | T-24AU |
| 4-Port | T-34A |
| 4-Port (Dual path) | T-54AD |
| 6-Port | T-54A |
| 6-Port | T-64A |



MODEL 991728



sunhydraulics.com/model/991728



The XMD CAN-to-USB hardware interface cable is a USB 2.0 high-speed device that allows the Controller Area Network (CAN) in the XMD to be transmitted and received using the CANpoint XMD Configuration Software on a computer or laptop.

TECHNICAL DATA

Cable Length

16 ft

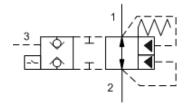
USED WITH

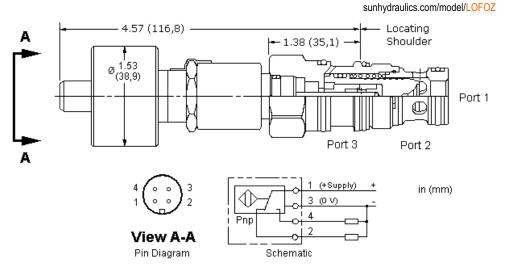
XMD-01 XMD-02



MODEL LOFOZ







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased open. Pressure at either work port 1 or 2 will tend to keep the valve open while pressure at port 3 will tend to close it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to close. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is spring biased to the fully open position.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .07 in ³ |
| Pilot Passage into Valve | .035 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Seal kit - Cartridge | Buna: 990202007 |
| Seal kit - Cartridge | Polyurethane: 990002002 |
| Seal kit - Cartridge | Viton: 990202006 |

CONFIGURATION OPTIONS

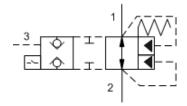
Model Code Example: LOFOZDN

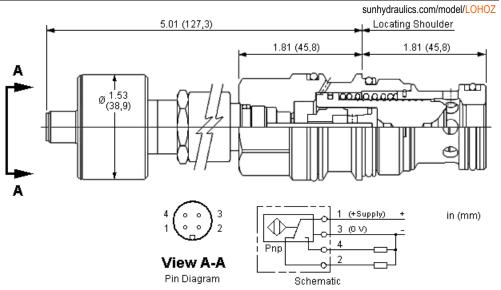
| CRACKING PRESSURE | (D) SEAL MATERIAL | (N) |
|---------------------------|-------------------|-----|
| D 50 psi (3,5 bar) | N Buna-N | |
| | V Viton | |



MODEL LOHOZ Pilot-to-close, spring-biased open, unbalanced poppet logic element with position switch SERIES 3 / CAPACITY: 100 gpm / CAVITY: T-17A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased open. Pressure at either work port 1 or 2 will tend to keep the valve open while pressure at port 3 will tend to close it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to close. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is spring biased to the fully open position.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .25 in³ |
| Pilot Passage into Valve | .06 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Seal kit - Cartridge | Buna: 990017007 |
| Seal kit - Cartridge | Polyurethane: 990017002 |
| Seal kit - Cartridge | Viton: 990117006 |

CONFIGURATION OPTIONS

Model Code Example: LOHOZDN

(N)

CRACKING PRESSURE

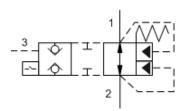
(D) SEAL MATERIAL

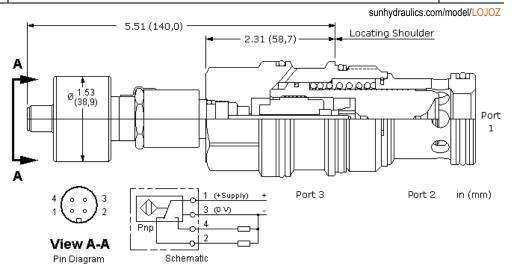
D 50 psi (3,5 bar)

N Buna-N V Viton



MODEL LOJOZ





These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased open. Pressure at either work port 1 or 2 will tend to keep the valve open while pressure at port 3 will tend to close it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to close. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is spring biased to the fully open position.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .42 in ³ |
| Pilot Passage into Valve | .09 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Seal kit - Cartridge | Buna: 990019007 |
| Seal kit - Cartridge | Polyurethane: 990019002 |
| Seal kit - Cartridge | Viton: 990019006 |

CONFIGURATION OPTIONS

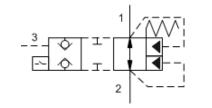
Model Code Example: LOJOZDN

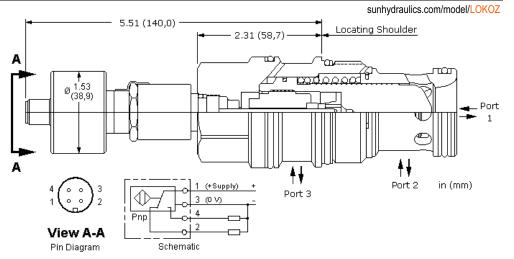
| CRACKING PRESSURE (| D) SEAL MATERIAL | (N) |
|---------------------------|------------------|-----|
| D 50 psi (3,5 bar) | N Buna-N | |
| | V Viton | |



MODEL LOKOZ Pilot-to-close, spring-biased open, unbalanced poppet logic element with position switch SERIES 4 / CAPACITY: 300 gpm / CAVITY: T-19AU







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased open. Pressure at either work port 1 or 2 will tend to keep the valve open while pressure at port 3 will tend to close it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to close. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is spring biased to the fully open position.

TECHNICAL DATA

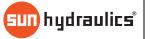
NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .47 in ³ |
| Pilot Passage into Valve | .09 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Seal kit - Cartridge | Buna: 990019007 |
| Seal kit - Cartridge | Polyurethane: 990019002 |
| Seal kit - Cartridge | Viton: 990019006 |

CONFIGURATION OPTIONS

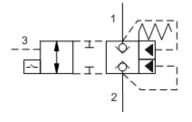
Model Code Example: LOKOZDN

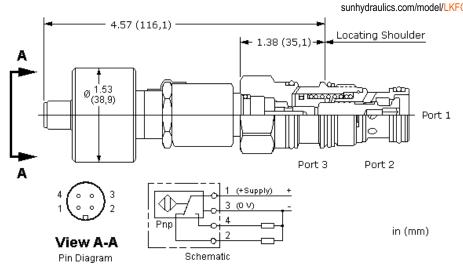
| CRACKING PRESSURE (| D) SEAL MATERIAL | (N) |
|---------------------------|------------------|-----|
| D 50 psi (3,5 bar) | N Buna-N | |
| | V Viton | |



MODEL LKFCZ Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position switch SERIES 2 / CAPACITY: 20 gpm / CAVITY: T-2A







These unbalanced poppet, logic valves are 2-way switching elements that are spring-biased closed. Pressure at either work port 1 or 2 will further bias the valve to the closed position while pressure at port 3 will tend to open it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to open. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .06 in ³ |
| Pilot Passage into Valve | .035 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990202007 |
| Seal kit - Cartridge | EPDM: 990202014 |
| Seal kit - Cartridge | Polyurethane: 990002002 |
| Seal kit - Cartridge | Viton: 990202006 |

CONFIGURATION OPTIONS

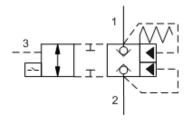
Model Code Example: LKFCZDN

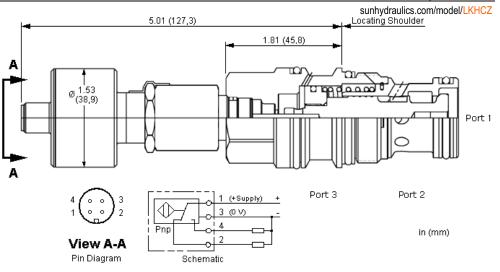
| MINIMUM PILOT PRESSURE | (D) | SEAL MATERIAL | (N) |
|---------------------------|-----|---------------|-----|
| D 50 psi (3,5 bar) | | N Buna-N | |
| | | E EPDM | |
| | | V Viton | |



MODEL LKHCZ Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position switch SERIES 3 / CAPACITY: 40 gpm / CAVITY: T-17A







These unbalanced poppet, logic valves are 2-way switching elements that are spring-biased closed. Pressure at either work port 1 or 2 will further bias the valve to the closed position while pressure at port 3 will tend to open it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to open. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .15 in ³ |
| Pilot Passage into Valve | .06 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990017007 |
| Seal kit - Cartridge | EPDM: 990017014 |
| Seal kit - Cartridge | Polyurethane: 990017002 |
| Seal kit - Cartridge | Viton: 990017006 |

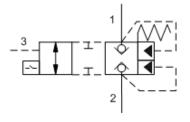
CONFIGURATION OPTIONS

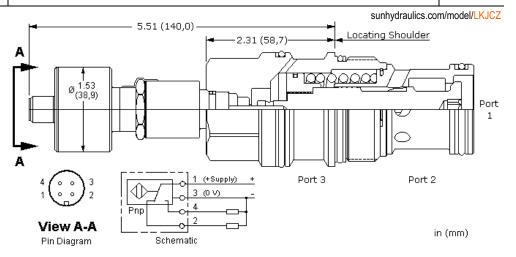
Model Code Example: LKHCZDN

| MINIMUM PILOT PRESSURE | (D) | SEAL MATERIAL | (N) |
|---------------------------|-----|---------------|-----|
| D 50 psi (3,5 bar) | | N Buna-N | |
| | | E EPDM | |
| | | V Viton | |



MODEL LKJCZ Pilot-to-open, spring-biased closed, unbalanced poppet logic element with position switch SERIES 4 / CAPACITY: 80 gpm / CAVITY: T-19A





These unbalanced poppet, logic valves are 2-way switching elements that are spring-biased closed. Pressure at either work port 1 or 2 will further bias the valve to the closed position while pressure at port 3 will tend to open it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to open. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .30 in ³ |
| Pilot Passage into Valve | .09 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990019007 |
| Seal kit - Cartridge | Polyurethane: 990019002 |
| Seal kit - Cartridge | Viton: 990019006 |

CONFIGURATION OPTIONS

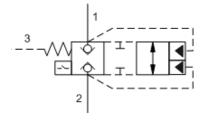
Model Code Example: LKJCZDN

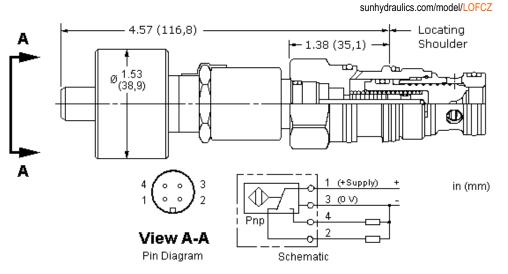
| MINIMUM PILOT PRESSURE | (D) | SEAL MATERIAL | (N) |
|---------------------------|-----|---------------|-----|
| D 50 psi (3,5 bar) | | N Buna-N | |
| | | V Viton | |



MODEL LOFCZ Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position switch SERIES 2 / CAPACITY: 50 gpm / CAVITY: T-2A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|----------------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .07 in ³ |
| Pilot Passage into Valve | .035 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in ³ /min.@1000 psi |
| Seal kit - Cartridge | Buna: 990202007 |
| Seal kit - Cartridge | Polyurethane: 990002002 |
| Seal kit - Cartridge | Viton: 990202006 |

CONFIGURATION OPTIONS

D 50 psi (3,5 bar)

Model Code Example: LOFCZDN

(N)

NOMINAL CONTROL PRESSURE (D) SEAL MATERIAL

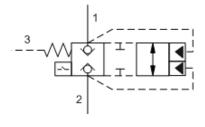
N Buna-N

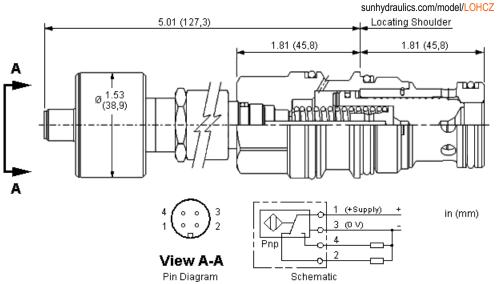
V Viton



MODEL LOHCZ Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position switch SERIES 3 / CAPACITY: 100 gpm / CAVITY: T-17A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|----------------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .25 in ³ |
| Pilot Passage into Valve | .06 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in ³ /min.@1000 psi |
| Seal kit - Cartridge | Buna: 990017007 |
| Seal kit - Cartridge | Polyurethane: 990017002 |
| Seal kit - Cartridge | Viton: 990017006 |

CONFIGURATION OPTIONS

Model Code Example: LOHCZDN

(N)

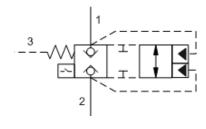


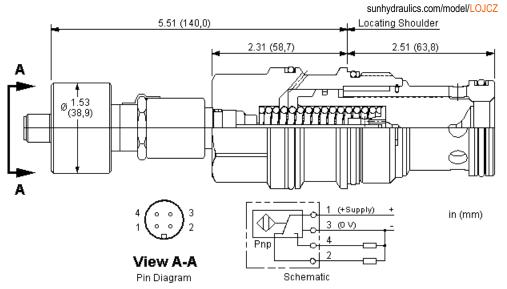
V Viton



MODEL LOJCZ Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position switch SERIES 4 / CAPACITY: 200 gpm / CAVITY: T-19A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|----------------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .42 in ³ |
| Pilot Passage into Valve | .09 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in ³ /min.@1000 psi |
| Seal kit - Cartridge | Buna: 990019007 |
| Seal kit - Cartridge | Polyurethane: 990019002 |
| Seal kit - Cartridge | Viton: 990019006 |

CONFIGURATION OPTIONS

Model Code Example: LOJCZDN

(N)

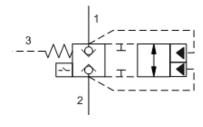


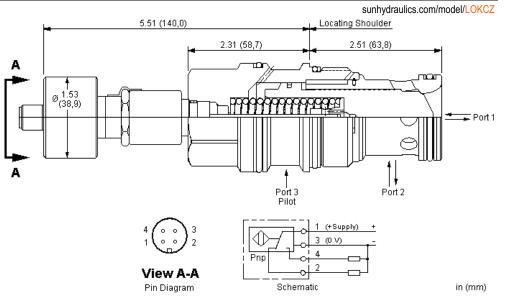
N Buna-N V Viton



MODEL LOKCZ Pilot-to-close, spring-biased closed, unbalanced poppet logic element with position switch SERIES 4 / CAPACITY: 300 gpm / CAVITY: T-19AU







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .47 in ³ |
| Pilot Passage into Valve | .09 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990019007 |
| Seal kit - Cartridge | Polyurethane: 990019002 |
| Seal kit - Cartridge | Viton: 990019006 |

CONFIGURATION OPTIONS

Model Code Example: LOKCZDN

(N)

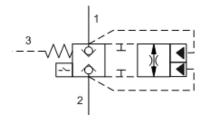
| CRACKING PRESSURE | (D) SEAL MATERIAL | |
|---------------------------|-------------------|--|
| D 50 psi (3,5 bar) | N Buna-N | |
| | V Viton | |

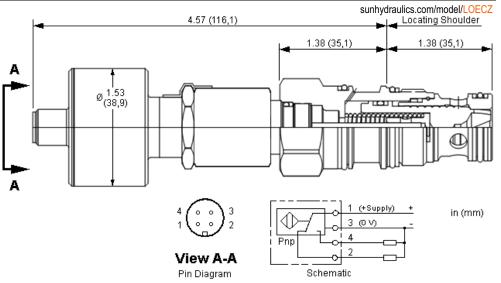


MODEL

Pilot-to-close, spring-biased closed, unbalanced poppet logic element with metering notches and position switch SERIES 2 / CAPACITY: 12 gpm / CAVITY: T-2A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .07 in ³ |
| Pilot Passage into Valve | .035 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990202007 |
| Seal kit - Cartridge | Polyurethane: 990002002 |
| Seal kit - Cartridge | Viton: 990202006 |

CONFIGURATION OPTIONS

Model Code Example: LOECZDN

(N)

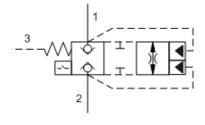
| NOMINAL CONTROL PRESSURE | (D) SEAL MATERIAL |
|-------------------------------|-------------------|
| \mathbf{D} 50 pci (3.5 bar) | N Buna-N |
| D 50 psi (3,5 bar) | N Dulla-IN |

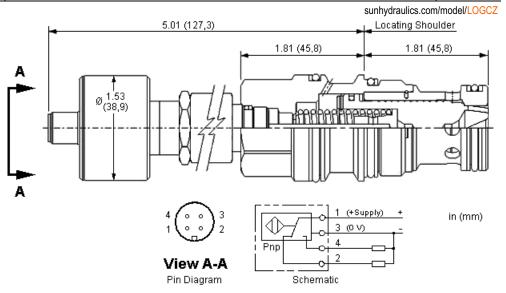
N Buna-N V Viton



MODEL LOGCZ Pilot-to-close, spring-biased closed, unbalanced poppet logic element with metering notches and position switch SERIES 3 / CAPACITY: 40 gpm / CAVITY: T-17A







These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. The force generated by the pressure at port 3, plus the spring force, must be greater than the sum of the forces generated by the pressures at ports 1 and 2 for the valve to remain closed.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|----------------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Pilot Volume Displacement | .25 in ³ |
| Pilot Passage into Valve | .06 in. |
| Area Ratio, A3 to A1 | 1.8:1 |
| Area Ratio, A3 to A2 | 2.25:1 |
| Transition leakage at 110 SUS (24 cSt) | 2 in ³ /min.@1000 psi |
| Seal kit - Cartridge | Buna: 990017007 |
| Seal kit - Cartridge | Polyurethane: 990017002 |
| Seal kit - Cartridge | Viton: 990017006 |

CONFIGURATION OPTIONS

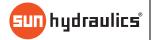
Model Code Example: LOGCZDN

(N)

| NOMINAL CONTROL PRESSURE | (D) SEAL MATERIAL |
|--------------------------|-------------------|
| | |

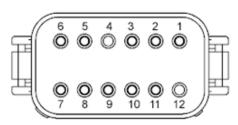
D 50 psi (3,5 bar)

N Buna-N V Viton









WIRING DIAGRAM

| Terminal | Function |
|----------|----------------------|
| 1 | CAN_LO |
| 2 | CAN_HI |
| 3 | GND (Output & 5Vref) |
| 4 | No Connection |
| 5 | GND (Output & 5Vret) |
| 6 | PWM Output, Coil A |

| Terminal | Function |
|----------|-------------------|
| 7 | BattGND |
| 8 | +VBatt |
| 9 | Enable |
| 10 | +5Vref |
| 11 | Universal Input 1 |
| 12 | No Connection |

This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver.

TECHNICAL DATA

Connector

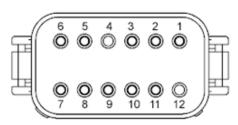
Molex 93445-6212, Keying Option A, Grey

USED WITH









WIRING DIAGRAM

| Terminal | Function | |
|----------|----------------------|--|
| 1 | CAN_LO | |
| 2 | CAN_HI | |
| 3 | GND (Output & 5Vref) | |
| 4 | No Connection | |
| 5 | GND (Output & 5Vref) | |
| 6 | PWM Output, Coil A | |

| Terminal | Function | |
|----------|-------------------|--|
| 7 | BattGND | |
| 8 | +VBatt | |
| 9 | Enable | |
| 10 | +5Vref | |
| 11 | Universal Input 1 | |
| 12 | No Connection | |

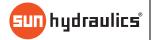
This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver.

TECHNICAL DATA

Connector

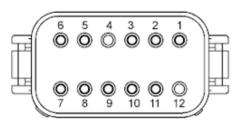
Molex 93445-6212, Keying Option A, Grey

USED WITH









WIRING DIAGRAM

| Terminal | Function | |
|----------|----------------------|--|
| 1 | CAN_LO | |
| 2 | CAN_HI | |
| 3 | GND (Output & 5Vref) | |
| 4 | PWM Output, Coil B | |
| 5 | GND (Output & 5Vret) | |
| 6 | PWM Output, Coil A | |

| Terminal | Function | |
|----------|-------------------|--|
| 7 | BattGND | |
| 8 | +VBatt | |
| 9 | Enable | |
| 10 | +5Vref | |
| 11 | Universal Input 1 | |
| 12 | Universal Input 2 | |

This double-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-02 electro-hydraulic driver.

TECHNICAL DATA

Connector

Molex 93445-6212, Keying Option A, Grey

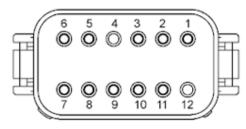
USED WITH





snhy.com/991712600





WIRING DIAGRAM

| Terminal | Function |
|----------|----------------------|
| 1 | CAN_LO |
| 2 | CAN_HI |
| 3 | GND (Output & 5Vref) |
| 4 | PVVM Output, Coil B |
| 5 | GND (Output & 5Vret) |
| 6 | PVVM Output, Coil A |

| Terminal | Function | |
|----------|-------------------|--|
| 7 | BattGND | |
| 8 | +VBatt | |
| 9 | Enable | |
| 10 | +5Vref | |
| 11 | Universal Input 1 | |
| 12 | Universal Input 2 | |
| | | |

This double-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-02 electro-hydraulic driver.

TECHNICAL DATA

Connector

Molex 93445-6212, Keying Option A, Grey

USED WITH

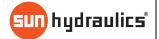


Deutsch cable assembly for use with Sun's XMD Series electro-hydraulic drivers.

TECHNICAL DATA

| | Connector | Molex 93445-1101, Black |
|--|-----------|-------------------------|
|--|-----------|-------------------------|

USED WITH 991711300 991711600 991712300 991712600 XMD-01 XMD-02





snhy.com/991713060





Deutsch cable assembly for use with Sun's XMD Series electro-hydraulic drivers.

TECHNICAL DATA

Connector Molex 93445-1101, Black

USED WITH

XMD-01 XMD-02









This adapter cable is used to convert Sun's FLeX Series coil with Deutsch connector to Metri-Pack Series 150-2M.

TECHNICAL DATA

Length

7.50 in.









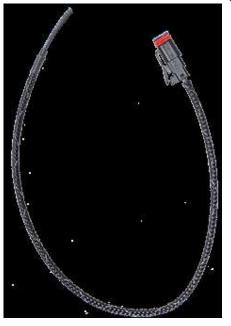
This adapter cable is used to convert Sun's FLeX Series coil with Deutsch connector to AMP Junior Timer.

TECHNICAL DATA









This adapter cable is used to convert Sun's FLeX Series coil with Deutsch connector to twin leads.

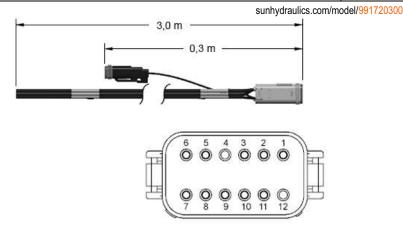
TECHNICAL DATA



MODEL 991720300







WIRING DIAGRAM

| Terminal | Function | Terminal | Function |
|----------|----------------------|----------|-------------------|
| 1 | CAN_LO | 7 | Batt GND |
| 2 | CAN_HI | 8 | +VBatt |
| 3 | GND (Output & 5Vref) | 9 | Enable |
| 4 | No Connection | 10 | +5Vref |
| 5 | GND (Output & 5Vref) | 11 | Universal Input 1 |
| 6 | PWM Output, Coil A | 12 | No Connection |

This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver. It comes equipped with a 2-pin Deutsch lead that connects directly to the FLeX or 770 Series Deutsch coils when combined with the coil clip accessory.

TECHNICAL DATA

| Connector | Molex 93445-6212, Keying Option A, Grey |
|-----------|-----------------------------------------|
|-----------|-----------------------------------------|

| 740912 740924L 770924N | 740912D 740924LD 770928 | 740912L 740928 991713030 | 740912LD 740928D 991713060 | 740914 740928L 991740001 | 740914D 740928LD 991740002 | 740914L 770912 XMD-01 | 740914LD 770914 XMD-02 | 740924 770914N | 740924D 770924 |
|------------------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------------|----------------------------------|-----------------------------|------------------------------|-------------------|-------------------|
| 770924N | 770928 | 991713030 | 991713060 | 991740001 | 991740002 | XMD-01 | XMD-02 | | |

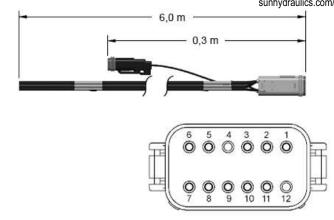


MODEL 991720600 XMD Series, 6M, 12-pin Deutsch prototype cable, single-output with 2-pin Deutsch lead



sunhydraulics.com/model/991720600





WIRING DIAGRAM

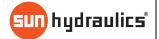
| Terminal | Function | Terminal | Function |
|----------|----------------------|----------|-------------------|
| 1 | CAN_LO | 7 | Batt GND |
| 2 | CAN_HI | 8 | +VBatt |
| 3 | GND (Output & 5Vref) | 9 | Enable |
| 4 | No Connection | 10 | +5Vref |
| 5 | GND (Output & 5Vref) | 11 | Universal Input 1 |
| 6 | PW/M Output, Coil A | 12 | No Connection |

This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver. It comes equipped with a 2-pin Deutsch lead that connects directly to the FLeX or 770 Series Deutsch coils when combined with the coil clip accessory.

TECHNICAL DATA

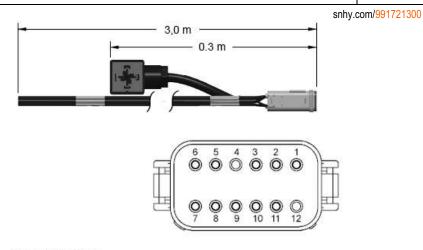
| | Connector | Molex 93445-6212, Keying Option A, Grey | |
|--|-----------|-----------------------------------------|--|
|--|-----------|-----------------------------------------|--|

| 740912 | 740912D | 740912L | 740912LD | 740914 | 740914D | 740914L | 740914LD | 740924 | 740924D |
|---------|----------|-----------|-----------|-----------|-----------|---------|----------|---------|---------|
| 740924L | 740924LD | 740928 | 740928D | 740928L | 740928LD | 770912 | 770914 | 770914N | 770924 |
| 770924N | 770928 | 991713030 | 991713060 | 991740001 | 991740002 | XMD-01 | XMD-02 | | 110021 |



MODEL 991721300 XMD Series, 3M, 12-pin Deutsch prototype cable, single-output with ISO/DIN 43650, Form A lead





WIRING DIAGRAM

| Terminal | Function | Terminal | Function |
|----------|----------------------|----------|-------------------|
| 1 | CAN_LO | 7 | Batt GND |
| 2 | CAN_HI | 8 | +VBatt |
| 3 | GND (Output & 5Vref) | 9 | Enable |
| 4 | No Connection | 10 | +5Vref |
| 5 | GND (Output & 5Vref) | 11 | Universal Input 1 |
| 6 | PWM Output, Coil A | 12 | No Connection |

This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver. It comes equipped with a ISO/DIN 43650, Form A overmolded connector that connects directly to the FLeX or 770 Series VDC ISO/DIN 43650 coils when combined with the coil clip accessory.

TECHNICAL DATA

Connector Molex 93445-6212, Keying Option A, Grey

| USED WITH | l | | | | | | | | |
|-----------|----------|---------|----------|---------|----------|---------|----------|--------|---------|
| 740212 | 740212D | 740212L | 740212LD | 740214 | 740214D | 740214L | 740214LD | 740224 | 740224D |
| 740224L | 740224LD | 740228 | 740228D | 740228L | 740228LD | 770212 | 770214 | 770224 | 770228 |

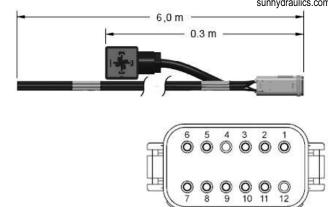


XMD Series, 6M, 12-pin Deutsch prototype cable single-output with ISO/DIN 43650, Form A lead



sunhydraulics.com/model/991721600





WIRING DIAGRAM

| Terminal | Function | Terminal | Function |
|----------|----------------------|----------|-------------------|
| 1 | CAN_LO | 7 | Batt GND |
| 2 | CAN_HI | 8 | +VBatt |
| 3 | GND (Output & 5Vref) | 9 | Enable |
| 4 | No Connection | 10 | +5Vref |
| 5 | GND (Output & 5Vref) | 11 | Universal Input 1 |
| 6 | PWM Output, Coil A | 12 | No Connection |

This single-output, 12 Pin Deutsch cable assembly is for use with Sun's XMD-01 electro-hydraulic driver. It comes equipped with a ISO/DIN 43650, Form A overmolded connector that connects directly to the FLeX or 770 Series VDC ISO/DIN 43650 coils when combined with the coil clip accessory.

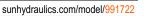
TECHNICAL DATA

| Connector | Molex 93445-6212, Keying Option A, Grey |
|-----------|-----------------------------------------|
|-----------|-----------------------------------------|

USED WITH 740212 740212D 740212L 740212LD 740214 740214D 740214L 740214LD 740224 740224D 740224L 740224LD 740228 740228D 740228L 740228LD 770212 770214 770224 770228











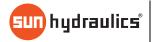
This Deutsch 12 pin connector kit is for use with Sun's XMD series electro-hydraulic drivers. Assembly is required.

TECHNICAL DATA

| Socket | 0462-201-16141, HD30 Series, 16 to 18 AWG, terminal size 16, Nickel |
|------------|---------------------------------------------------------------------|
| Wedge lock | W12S, DT Series, 12 pin |
| Crimp tool | HDT-48-00 |
| Connector | DT06-12SA, DT Series, 12 pin, contact size 16, gray |

USED WITH

XMD-01 XMD-02









This Deutsch 2 pin connector kit is for use with Sun's 2 pin Deutsch coils. Assembly is required.

TECHNICAL DATA

| Socket | 0462-201-16141, HD30 Series, 16 to 18 AWG, terminal size 16, Nickel |
|------------|---------------------------------------------------------------------|
| Wedge lock | W2S, DT Series 2 pin |
| Crimp tool | HDT-48-00 |
| Connector | DT06-2S, DT Series, 2 pin, contact size 16, gray |

| 740912 | 740912D | 740912L | 740912LD | 740914 | 740914D | 740914L | 740914LD | 740924 | 740924D |
|---------|----------|---------|----------|---------|----------|---------|----------|--------|---------|
| 740924L | 740924LD | 740928 | 740928D | 740928L | 740928LD | 770912 | 770912N | 770914 | 770914N |
| 770924 | 770924N | 770928 | 780912N | 780924N | | | | | |









This Deutsch 2 pin connector kit is for use with Sun's 2 pin Deutsch coils. Assembly is required.

TECHNICAL DATA

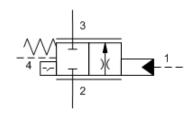
| Socket | 0462-201-16141, HD30 Series, 16 to 18 AWG, terminal size 16, Nickel |
|------------|---------------------------------------------------------------------|
| Wedge lock | W2S, DT Series 2 pin |
| Crimp tool | HDT-48-00 |
| Connector | DT06-2S, DT Series, 2 pin, contact size 16, black |

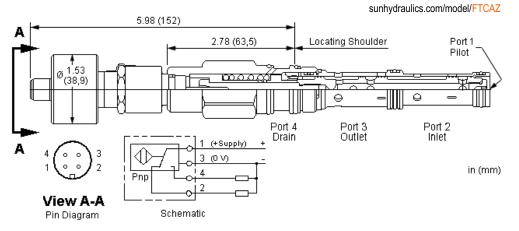
| 740912 | 740912D | 740912L | 740912LD | 740914 | 740914D | 740914L | 740914LD | 740924 | 740924D |
|---------|----------|---------|----------|---------|----------|---------|----------|--------|---------|
| 740924L | 740924LD | 740928 | 740928D | 740928L | 740928LD | 770912 | 770912N | 770914 | 770914N |
| 770924 | 770924N | 770928 | 780912N | 780924N | | | | | |



MODEL FTCAZ







This valve is a 2-way, 2-position proportional throttle. Ports 2 and 3 are normally closed. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The metering passage is self-compensating.

This valve uses a dual-path design. Ports 2 and 3 incorporate a double-port area.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Pilot Pressure Required for Full Shift at Rated Flow | 290 - 340 psi | | |
|------------------------------------------------------|---------------------|--|--|
| Maximum Operating Pressure | 5000 psi | | |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 5 in³/min.@1000 psi | | |
| Pilot Volume Displacement | .05 in³ | | |
| Seal kit - Cartridge | Buna: 990152007 | | |
| Seal kit - Cartridge | Viton: 990152006 | | |

NOTES

ES When installed in Sun's standard T-52A line mount manifold, plug unused ports and expect higher pressure drops.

CONFIGURATION OPTIONS

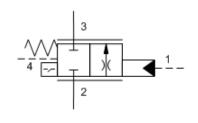
Model Code Example: FTCAZCN

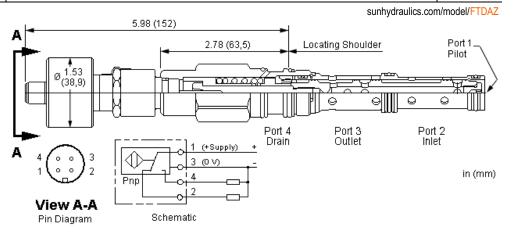
| SPOOL CONFIGURATION | (C) | SEAL MATERIAL | (N) |
|---------------------|-----|---------------|-----|
| C Normally Closed | | N Buna-N | |
| | | V Viton | |



MODEL FTDAZ







This valve is a 2-way, 2-position proportional throttle. Ports 2 and 3 are normally closed. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The metering passage is self-compensating.

This valve uses a dual-path design. Ports 2 and 3 incorporate a double-port area.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Pilot Pressure Required for Full Shift at Rated Flow | 290 - 340 psi | | |
|------------------------------------------------------|----------------------------------|--|--|
| Maximum Operating Pressure | 5000 psi | | |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 5 in ³ /min.@1000 psi | | |
| Pilot Volume Displacement | .05 in ³ | | |
| Seal kit - Cartridge | Buna: 990152007 | | |
| Seal kit - Cartridge | Viton: 990152006 | | |

NOTES When installed in Sun's standard T-52A line mount manifold, plug unused ports and expect higher pressure drops.

CONFIGURATION OPTIONS

Model Code Example: FTDAZCN

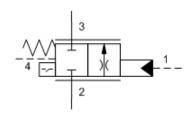
(N)

| SPOOL CONFIGURATION | (C) | SEAL MATERIAL |
|---------------------|-----|---------------|
| C Normally Closed | | N Buna-N |

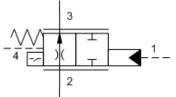
V Viton

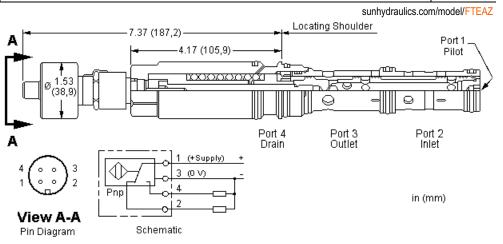
MODEL FTEA7





un hydraulics"





This valve is a 2-way, 2-position proportional throttle. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The metering passage is self-compensating.

This valve uses a dual-path design, Ports 2 and 3 incorporate a double-port area.

This valve incorporates a position switch to provide position confirmation.

TECHNICAL DATA

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

| Pilot Pressure Required for Full Shift at Rated Flow | 290 - 340 psi |
|------------------------------------------------------|----------------------|
| Maximum Operating Pressure | 5000 psi |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 10 in³/min.@1000 psi |
| Pilot Volume Displacement | .10 in ³ |
| Seal kit - Cartridge | Buna: 990053007 |
| Seal kit - Cartridge | Viton: 990053006 |

When installed in Sun's standard T-53A line mount manifold, plug unused ports and expect higher pressure drops. NOTES

CONFIGURATION OPTIONS

Model Code Example: FTEAZCN

| SPOOL CONFIGURATION | (C) | SEAL MATERIAL | (N) |
|---------------------|-----|---------------|-----|
| C Normally Closed | | N Buna-N | |
| H Normally Open | | V Viton | |

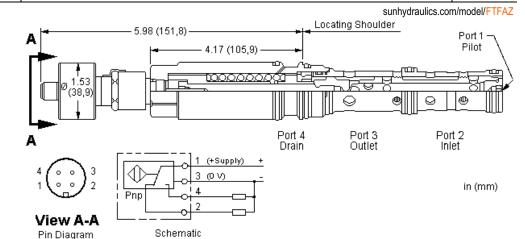


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MODEL FTFAZ





This valve is a 2-way, 2-position proportional throttle. Ports 2 and 3 are normally closed. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The metering passage is self-compensating.

This valve uses a dual-path design. Ports 2 and 3 incorporate a double-port area.

This valve incorporates a position switch to provide confirmation that the valve is closed.

TECHNICAL DATA

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

| Pilot Pressure Required for Full Shift at Rated Flow | 290 - 340 psi | | |
|------------------------------------------------------|----------------------|--|--|
| Maximum Operating Pressure | 5000 psi | | |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 10 in³/min.@1000 psi | | |
| Pilot Volume Displacement | .10 in ³ | | |
| Seal kit - Cartridge | Buna: 990053007 | | |
| Seal kit - Cartridge | Viton: 990053006 | | |

NOTES When installed in Sun's standard T-53A line mount manifold, plug unused ports and expect higher pressure drops.

CONFIGURATION OPTIONS

Model Code Example: FTFAZCN

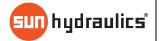
(N)

SPOOL CONFIGURATION

C Normally Closed

(C) SEAL MATERIAL N Buna-N

V Viton







Sun's Infrared Cable Adapter provides a convenient interface between Sun's 790 Series Embedded Digital Proportional Valve Amplifier and the Hand Held Programmer or a Windows Based PC. Included with the Cable Adaptor is a USB memory key containing Sun's Amplifier Set Up Software.

TECHNICAL DATA

| Supply Voltage | HHP or PC port powered |
|-----------------------------|------------------------|
| Operating Temperature Range | -4 - 140 °F |
| Cable Length | 6 ft |

USED WITH

| 7902B12A | 7902B12V | 7902B24A | 7902B24V | 7902C12V | 7902C24V | 7902D12A | 7902D24A | 7902D24V | 7902E12V | |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| 7902E24V 7904F24V | 7902F12V | 7902F24V | 7904A12A | 7904A12V | 7904A24A | 7904A24V | 7904E12V | 7904E24V | 7904F12V | |



snhy.com/991702



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Wiring Diagram

| Color | Terminal | Function | |
|--------------|----------|----------------|-------------------|
| Brown | 1 | +V Supply | 1 2 3 |
| Black | 2 | Command Input | |
| Blue | 3 | Supply Common | |
| Red | 4 | +5 V Ref | ••• |
| Green/Yellow | 5 | Command Common | 6 5 4 |
| White | 6 | Enable | DT04-6P Connector |
| Bare | | Shield Drain | |

Deutsch Cable Assembly for use with Sun's 790 series embedded amplifier equipped with a Deutsch DT06-6S connector.

TECHNICAL DATA

| Connector | Deutsch DT06-6S (mates with DT04-6P) |
|--------------|--------------------------------------|
| Cable Length | 10 ft |

| | 7904A12A | 7904A12V | 7904A24A | 7904A24V | 7904E12V | 7904E24V | 7904F12V | 7904F24V |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
|--|----------|----------|----------|----------|----------|----------|----------|----------|



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Wiring Diagram

| Color | Terminal | Function | |
|--------------|----------|----------------|------------------|
| Brown | 1 | +V Supply | 1 2 3 |
| Black | 2 | Command Input | |
| Blue | 3 | Supply Common | |
| Red | 4 | +5 V Ref | • • • J |
| Green/Yellow | 5 | Command Common | 6 5 4 |
| White | 6 | Enable | DT04-6P Connecto |
| Bare | | Shield Drain | |

Deutsch Cable Assembly for use with Sun's 790 series embedded amplifier equipped with a Deutsch DT06-6S connector.

TECHNICAL DATA

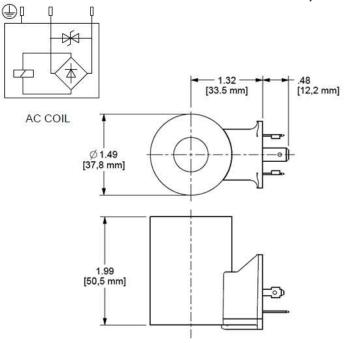
| Connector | Deutsch DT06-6S (mates with DT04-6P) |
|--------------|--------------------------------------|
| Cable Length | 20 ft |

| | 7904A12A | 7904A12V | 7904A24A | 7904A24V | 7904E12V | 7904E24V | 7904F12V | 7904F24V |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
|--|----------|----------|----------|----------|----------|----------|----------|----------|









TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 115 VAC 50/60 Hz |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

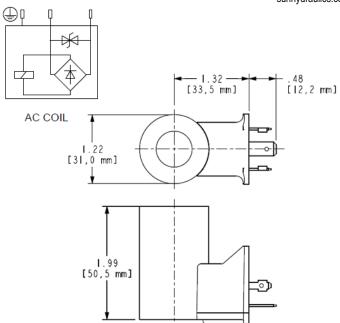
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FREP | PRDF | PRDG | RVCK | RVCL | RVCM |
| RVCN | | | | | | | | | |





sunhydraulics.com/model/740211L



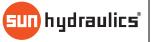


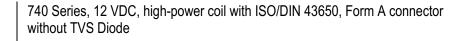
TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 115 VAC 50/60 Hz |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

DTBF

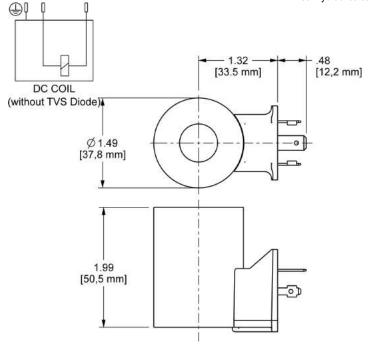
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS |
|------|-------|------|------|------|------|------|-------|











TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

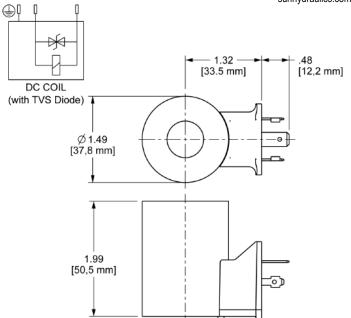


740 Series, 12 VDC, high-power coil with ISO/DIN 43650, Form A connector with TVS Diode



sunhydraulics.com/model/740212D





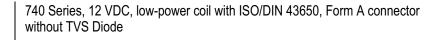
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TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

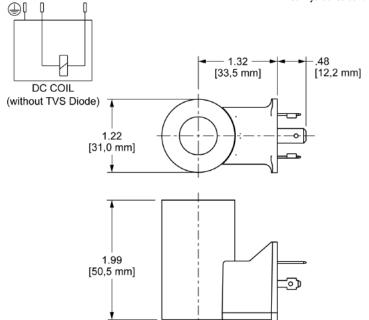






sunhydraulics.com/model/740212L



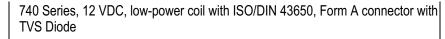


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| | | | | | | | DTAFS | | |
|--------|--------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DIAFS | DTBF | FPBD |
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991712300 | 991712600 | 991713030 | 991713060 | 991740002 |
| XMD-01 | XMD-02 | | | | | | | | |

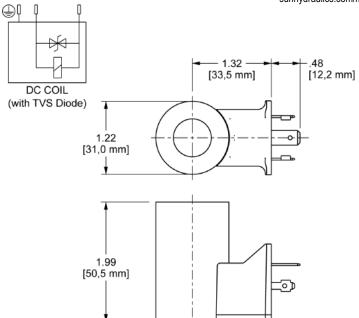






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TECHNICAL DATA

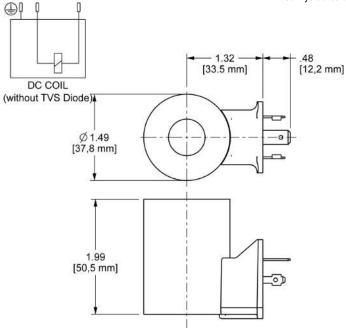
| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | |
| 991740002 | XMD-01 | XMD-02 | | | | | | | | |







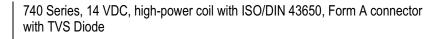


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

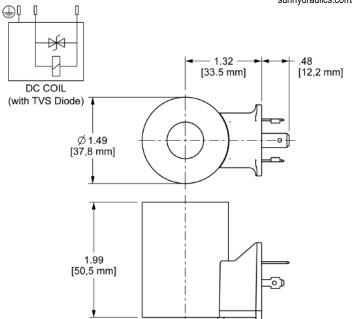






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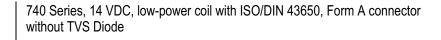
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TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

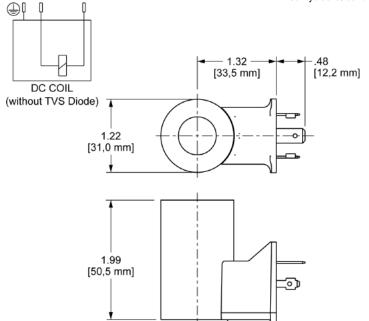






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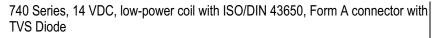


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FDEP |
|-------------------|-------------------|----------------|----------------|------|-----------|-----------|-----------|-----------|-----------|
| FPBD 991713060 | FPBE 991740002 | FPBM XMD-01 | FPBN XMD-02 | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 |

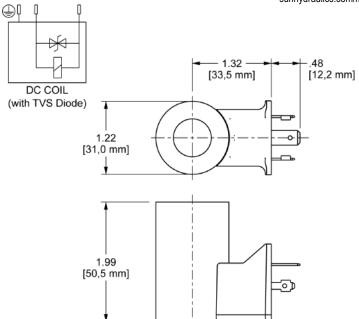






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TECHNICAL DATA

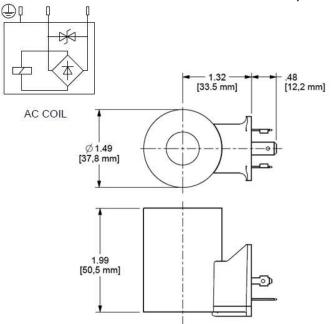
| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | |
| 991740002 | XMD-01 | XMD-02 | | | | | | | | |









TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 230 VAC 50/60 Hz |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

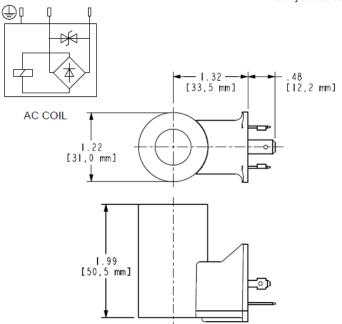
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FREP | PRDF | PRDG | RVCK | RVCL | RVCM |
| RVCN | | | | | | | | | |





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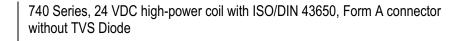


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 230 VAC 50/60 Hz |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | 991711300 |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|-----------|
| 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740002 | XMD-01 | XMD-02 | | |

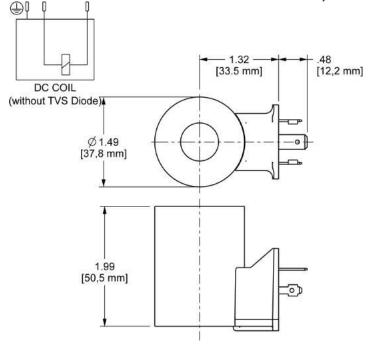












TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

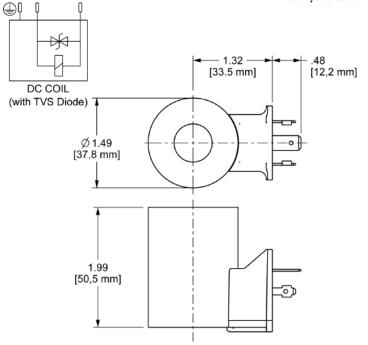


740 Series, 24 VDC high-power coil with ISO/DIN 43650, Form A connector with TVS Diode



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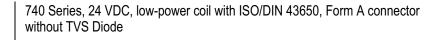


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

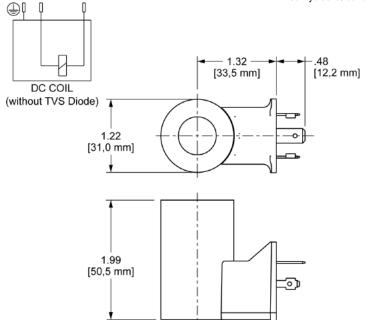






sunhydraulics.com/model/740224L





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

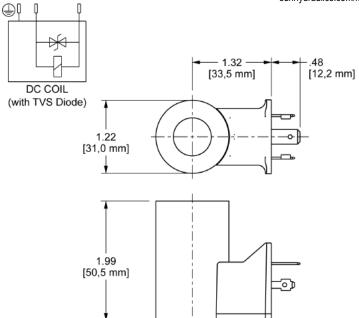
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | |
| 991740002 | XMD-01 | XMD-02 | | | | | | | | |





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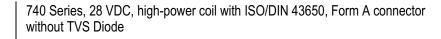


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

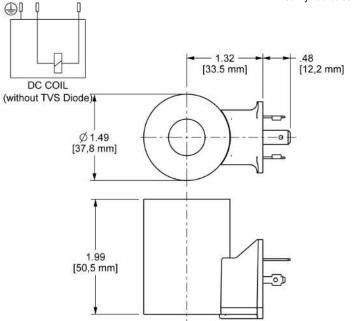
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | |
| 991740002 | XMD-01 | XMD-02 | | | | | | | | |











TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

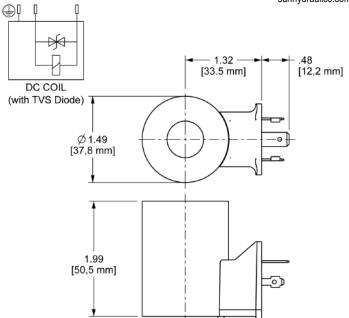


740 Series, 28 VDC, high-power coil with ISO/DIN 43650, Form A connector with TVS Diode



sunhydraulics.com/model/740228D





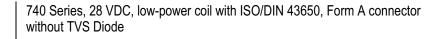
TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

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| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991740001 | XMD-01 | XMD-02 | |

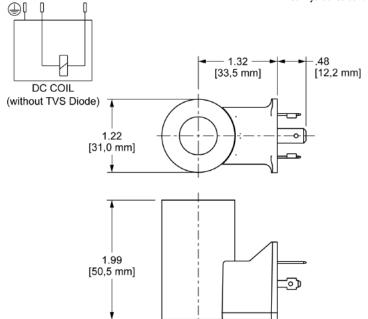






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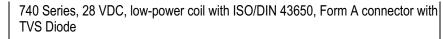


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | |
| 991740002 | XMD-01 | XMD-02 | | | | | | | | |

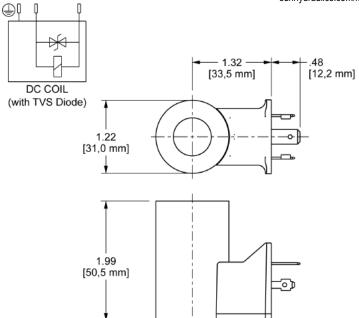






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TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|-----------|--------|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 |
| 991740002 | XMD-01 | XMD-02 | | | | | | | |

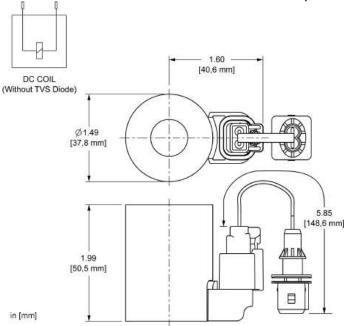


740 Series, 12 VDC, high-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740612





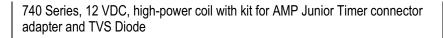
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Connector Environment Rating | IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

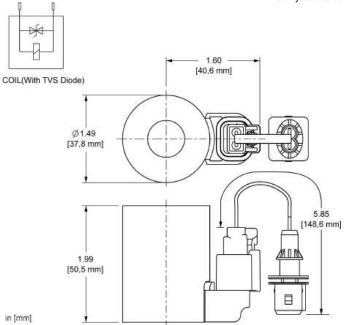






sunhydraulics.com/model/740612D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|------------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | |
| Maximum Ambient Temperature | 122 °F | | | |
| Voltage/Frequency | 12 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | AMP Junior Timer | | | |
| Connector Environment Rating | IP67 | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

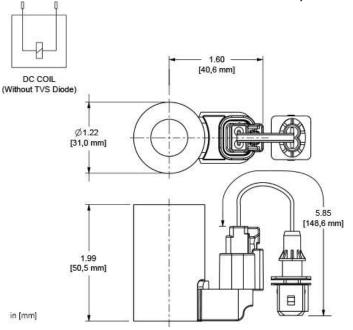


740 Series, 12 VDC, low-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740612L





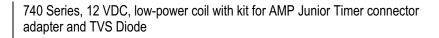
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|------------------|--|--|--|
| Arc Suppression (TVS) | None | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | |
| Maximum Ambient Temperature | 212 °F | | | |
| Voltage/Frequency | 12 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | AMP Junior Timer | | | |
| Connector Environment Rating | IP67 | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DBAFS | DFBD | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|-------|------|------|------|------|-------|------|------|------|
| FPBM | RPEI | | | | | | | | |

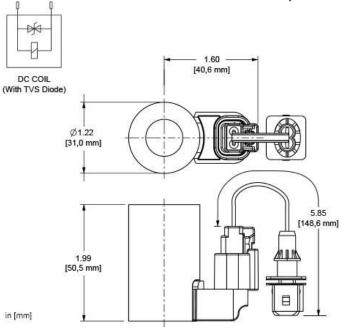






sunhydraulics.com/model/740612LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|------------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | |
| Maximum Ambient Temperature | 212 °F | | | |
| Voltage/Frequency | 12 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | AMP Junior Timer | | | |
| Connector Environment Rating | IP67 | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DBAFS | DFBD | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|-------|------|------|------|------|-------|------|------|------|
| FPBM | RPEI | | | | | | | | |

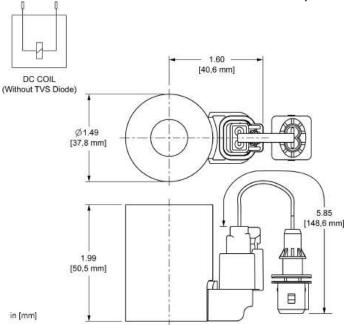


740 Series, 14 VDC, high-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740614





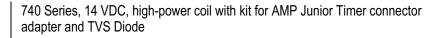
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | None | | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | | |
| Maximum Ambient Temperature | 122 °F | | | | |
| Voltage/Frequency | 14 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

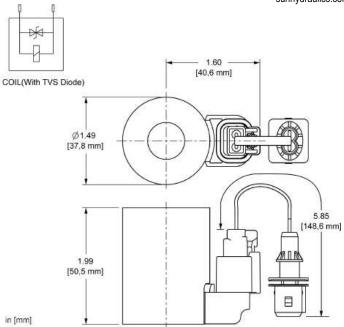






sunhydraulics.com/model/740614D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|------------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | |
| Maximum Ambient Temperature | 122 °F | | | |
| Voltage/Frequency | 14 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | AMP Junior Timer | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

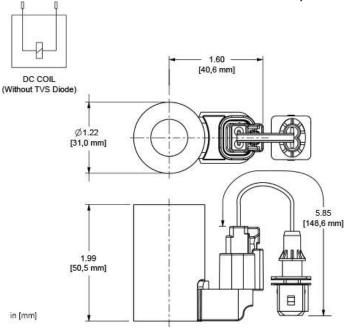


740 Series, 14 VDC, low-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740614L





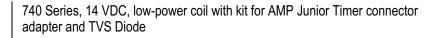
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

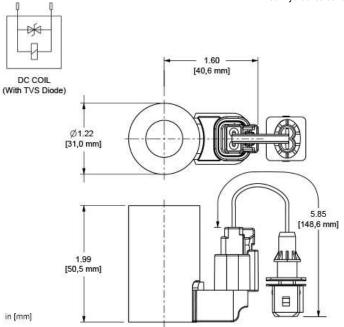






sunhydraulics.com/model/740614LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | Included | | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | | |
| Maximum Ambient Temperature | 212 °F | | | | |
| Voltage/Frequency | 14 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

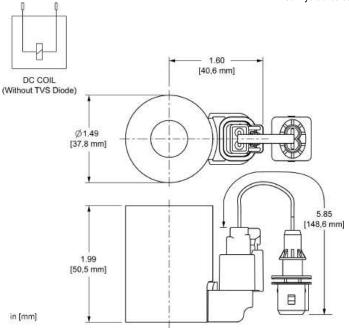


740 Series, 24 VDC, high-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740624





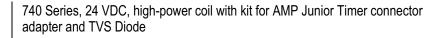
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

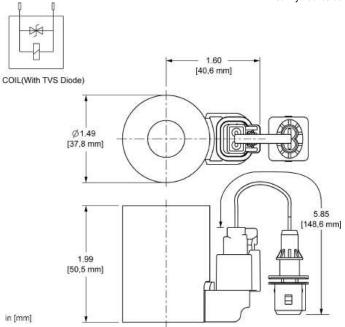






sunhydraulics.com/model/740624D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | Included | | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | | |
| Maximum Ambient Temperature | 122 °F | | | | |
| Voltage/Frequency | 24 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

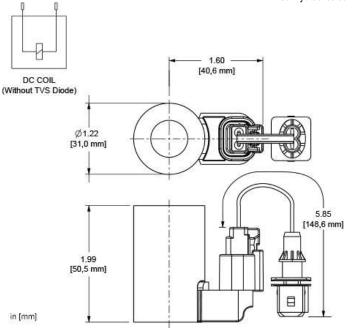


740 Series, 24 VDC, low-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740624L





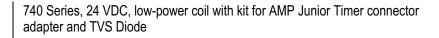
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

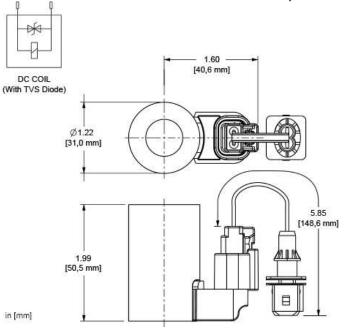






sunhydraulics.com/model/740624LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | Included | | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | | |
| Maximum Ambient Temperature | 212 °F | | | | |
| Voltage/Frequency | 24 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

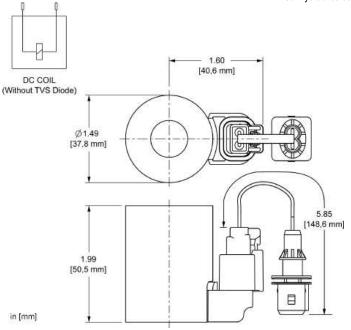


740 Series, 28 VDC, high-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740628





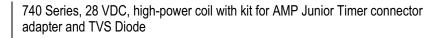
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

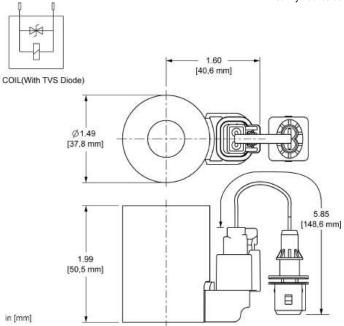






sunhydraulics.com/model/740628D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | AMP Junior Timer |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|-------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

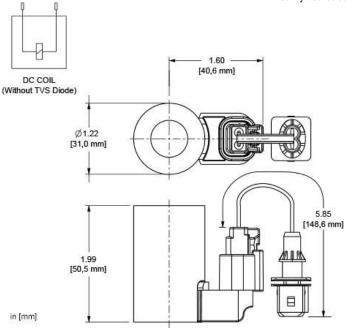


740 Series, 28 VDC, low-power coil with kit for AMP Junior Timer connector adapter and without TVS Diode



sunhydraulics.com/model/740628L





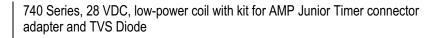
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | None | | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | | |
| Maximum Ambient Temperature | 212 °F | | | | |
| Voltage/Frequency | 28 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

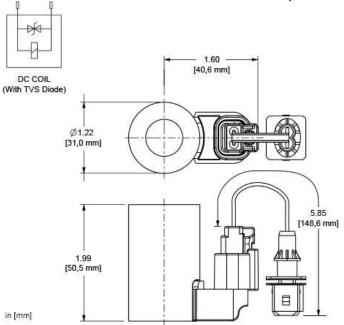






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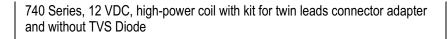
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------|--|--|--|--|
| Arc Suppression (TVS) | Included | | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | | |
| Maximum Ambient Temperature | 212 °F | | | | |
| Voltage/Frequency | 28 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | AMP Junior Timer | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

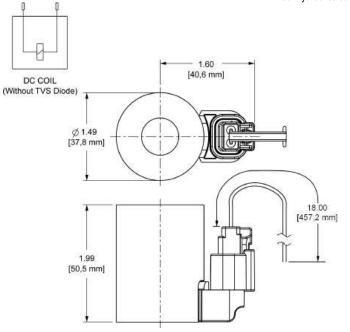






sunhydraulics.com/model/740712





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

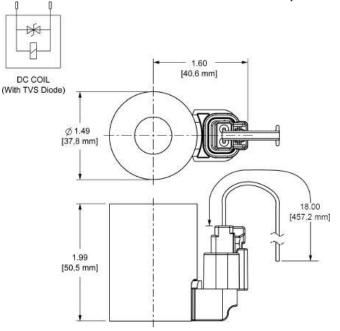
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |





sunhydraulics.com/model/740712D





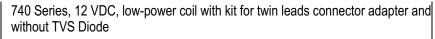
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

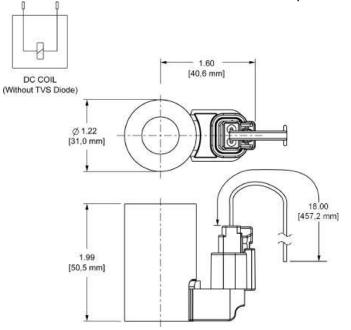






sunhydraulics.com/model/740712L





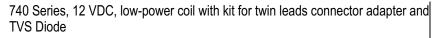
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

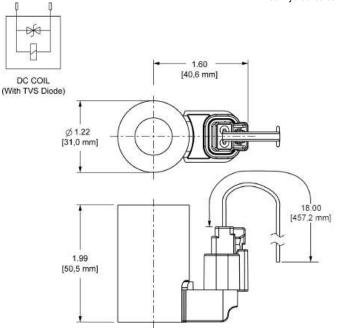






sunhydraulics.com/model/740712LD





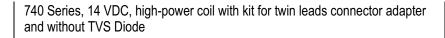
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

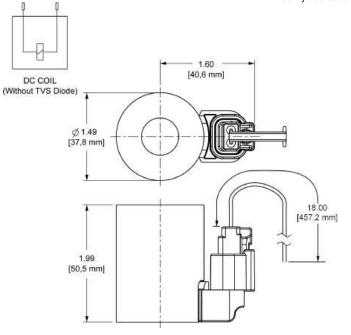






sunhydraulics.com/model/740714





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

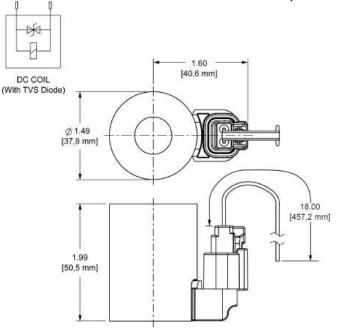
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |





sunhydraulics.com/model/740714D





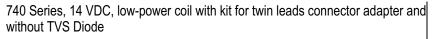
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

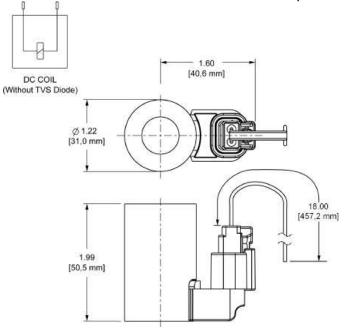






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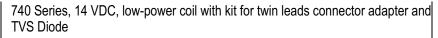
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

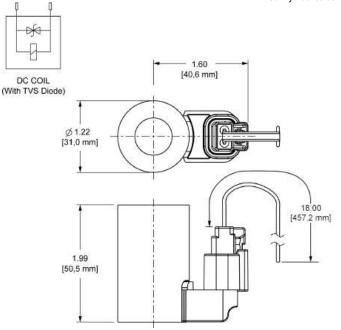






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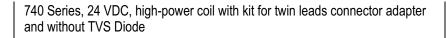
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

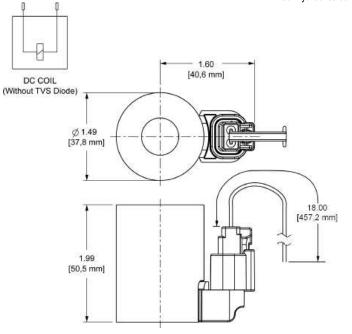






sunhydraulics.com/model/740724





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

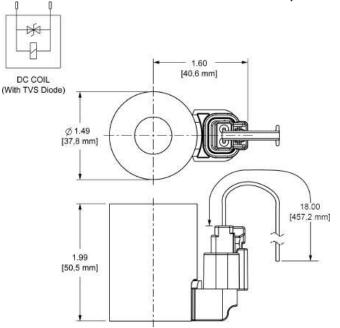
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |





sunhydraulics.com/model/740724D





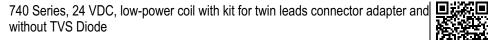
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |

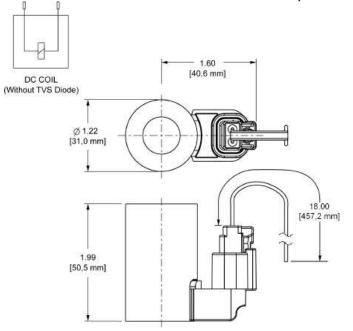






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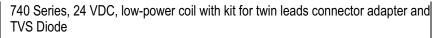


TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|------------------------------------|--|--|--|--|
| Arc Suppression (TVS) | None | | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | | |
| Maximum Ambient Temperature | 212 °F | | | | |
| Voltage/Frequency | 24 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

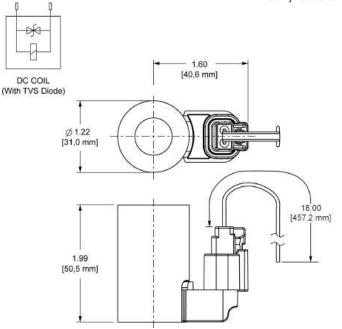






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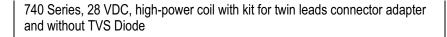
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

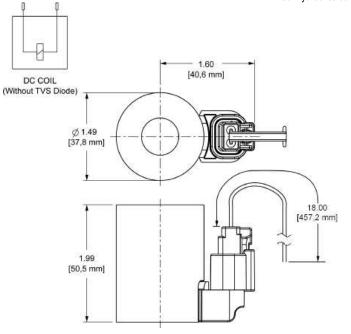






sunhydraulics.com/model/740728





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

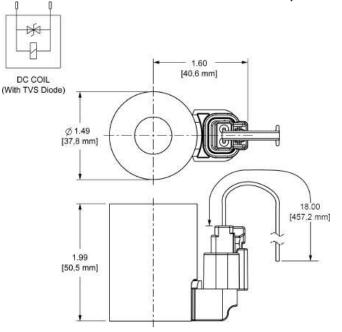
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |





sunhydraulics.com/model/740728D





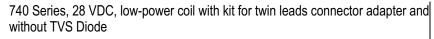
This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|------|-------|------|-------|------|------|------|-------|------|------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

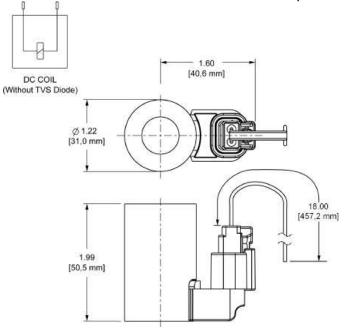






sunhydraulics.com/model/740728L





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

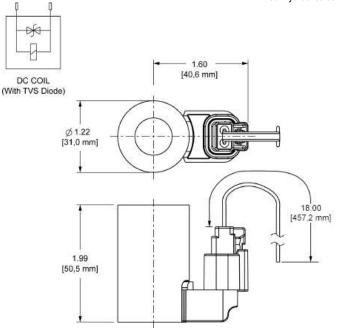


740 Series, 28 VDC, low-power coil with kit for twin leads connector adapter and TVS Diode



sunhydraulics.com/model/740728LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 18 in. (460 mm) |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|------|-------|------|------|------|------|------|-------|------|------|
| FPBE | FPBM | FPBN | RPEI | | | | | | |

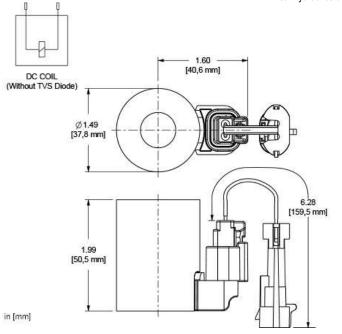


740 Series, 12 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740812





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

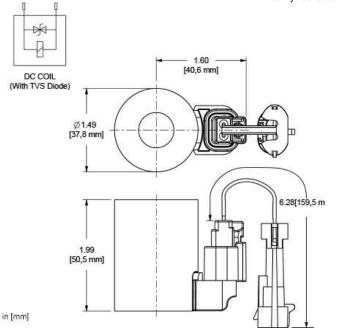


740 Series, 12 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740812D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

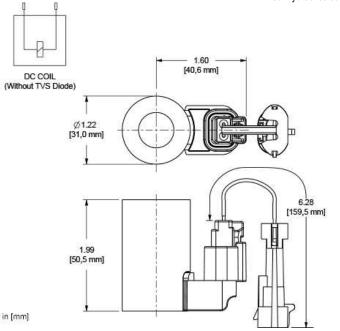


740 Series, 12 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740812L





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

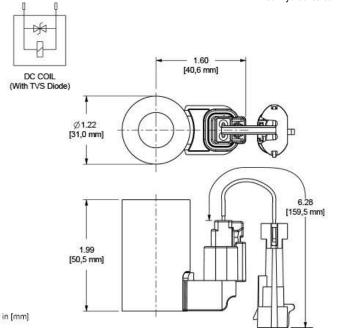


740 Series, 12 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740812LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

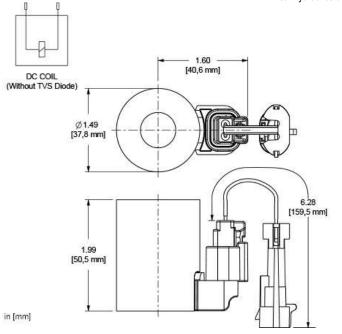


740 Series, 14 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740814





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

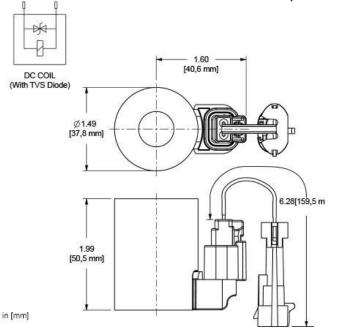


740 Series, 14 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740814D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

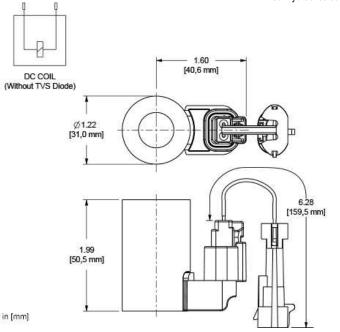


740 Series, 14 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740814L





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|-------------------------|--|--|--|
| Arc Suppression (TVS) | None | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | |
| Maximum Ambient Temperature | 212 °F | | | |
| Voltage/Frequency | 14 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | Metripack Series 150-2M | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

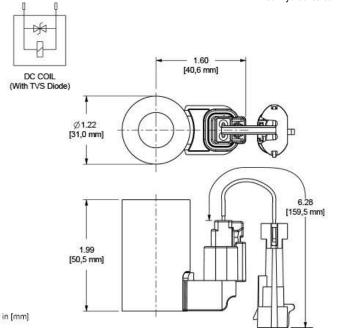


740 Series, 14 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740814LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|-------------------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | |
| Maximum Ambient Temperature | 212 °F | | | |
| Voltage/Frequency | 14 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | Metripack Series 150-2M | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

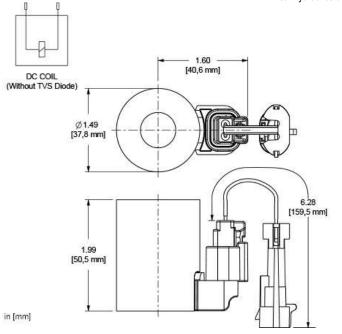


740 Series, 24 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740824





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

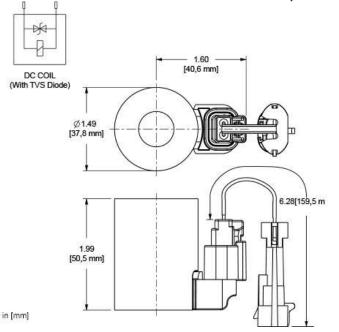


740 Series, 24 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740824D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|-------|------|-------|------|------|------|-------|------|------|------|
| DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF | DTDF |
| DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ |
| FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

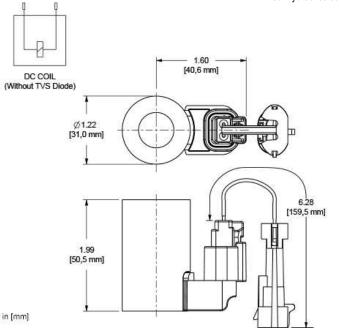


740 Series, 24 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740824L





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

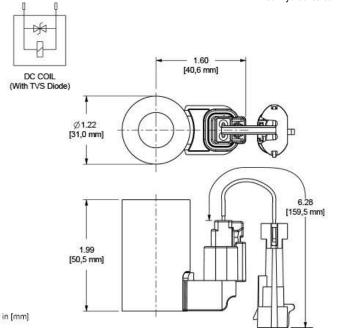


740 Series, 24 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740824LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | |
|---------------------------------------------|-------------------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 17 Watts | | | |
| Maximum Ambient Temperature | 212 °F | | | |
| Voltage/Frequency | 24 VDC | | | |
| Operating Voltage Range | +10%/-15% | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | Metripack Series 150-2M | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

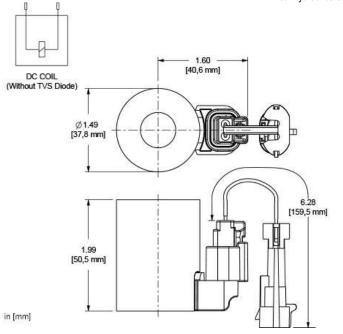


740 Series, 28 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740828





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|------|------|-------|------|------|-------|------|------|------|-------|
| DFFJ | DLDF | DLDFS | DMBF | DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS |
| DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU |
| FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | | |

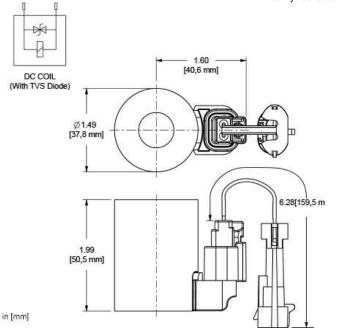


740 Series, 28 VDC, high-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740828D





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ | DFFI |
|------|------|------|------|-------|------|------|------|-------|------|
| DFFJ | DLDF | DMBF | DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF |
| DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP |
| PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | | | |

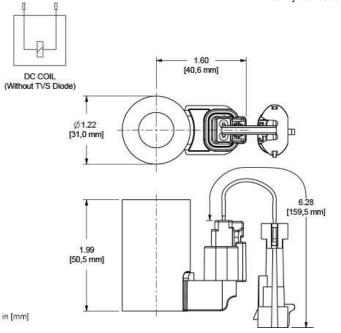


740 Series, 28 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and without TVS Diode



sunhydraulics.com/model/740828L





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |

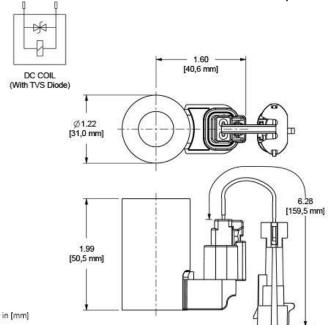


740 Series, 28 VDC, low-power coil with kit for Metri-Pack, Series 150-2M connector adapter and TVS Diode



sunhydraulics.com/model/740828LD





This 740 Series Coil configuration uses a connector adapter kit to provide the required termination.

TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Metripack Series 150-2M |
| Coil Nut Torque | 4.5 lbf in. |

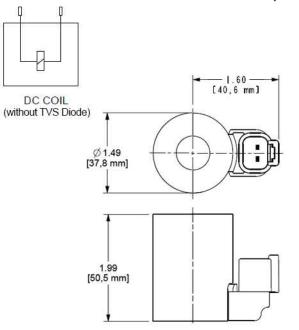
| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE |
|------|------|------|------|------|------|-------|------|------|------|
| FPBM | FPBN | RPEI | | | | | | | |





sunhydraulics.com/model/740912





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|-----------------|--|--|--|--|
| Arc Suppression (TVS) | None | | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | | |
| Maximum Ambient Temperature | 122 °F | | | | |
| Voltage/Frequency | 12 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | Deutsch DT04-2P | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

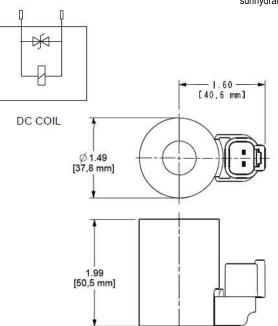
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740912D





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

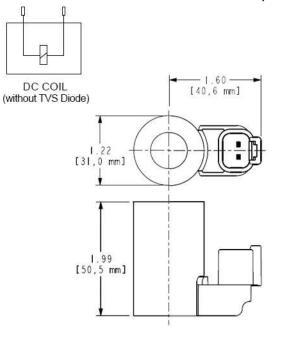
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740912L





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

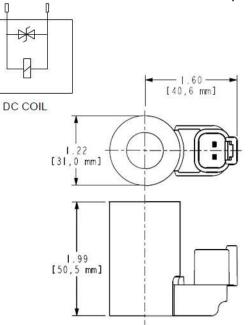
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 |
| 991717 | 991718 | 991719 | 991723001 | 991723002 | 991740002 | XMD-01 | XMD-02 | | |





sunhydraulics.com/model/740912LD





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|----------------|----------------|----------------|-------------------|------------------------|------------------------|---------------------|---------------------|-----------|-----------|
| FPBE 991717 | FPBM 991718 | FPBN 991719 | RPEI 991723001 | 991711300 991723002 | 991711600 991740002 | 991712300 XMD-01 | 991712600 XMD-02 | 991713030 | 991713060 |





sunhydraulics.com/model/740914



TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

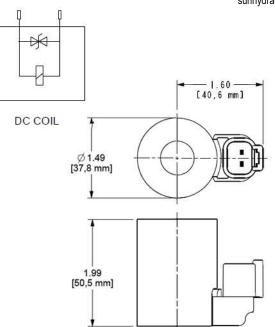
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP |
| PRDF | PRDG | RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 |
| 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 | 991723002 | 991740001 | XMD-01 | XMD-02 |





sunhydraulics.com/model/740914D





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

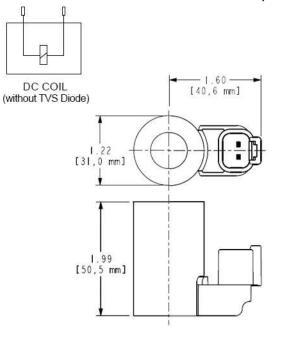
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP |
| PRDF | PRDG | RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 |
| 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 | 991723002 | 991740001 | XMD-01 | XMD-02 |





sunhydraulics.com/model/740914L





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

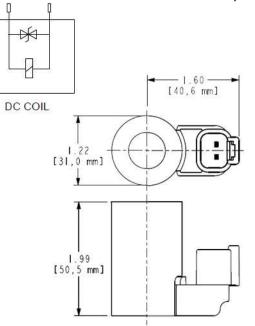
| DBAF | DBAFS | DFBD | DFBE | DFDJ | DMBD | DNBD | DTAF | DTAFS | DTBF |
|-----------|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| FPBD | FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 |
| 991713060 | 991717 | 991718 | 991719 | 991723001 | 991723002 | 991740002 | XMD-01 | XMD-02 | |





sunhydraulics.com/model/740914LD





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

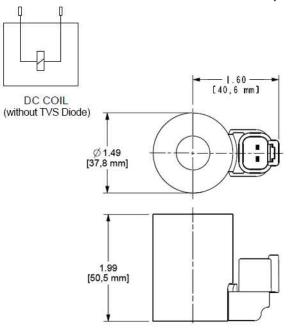
| DBAF DE | BAFS [| DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|---------|--------|------|------|------|------------------------|---------------------|---------------------|-----------|-----------|
| | | | | | 991711600 991740002 | 991712300 XMD-01 | 991712600 XMD-02 | 991713030 | 991713060 |





sunhydraulics.com/model/740924





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F | | | | |
|---------------------------------------------|-----------------|--|--|--|--|
| Arc Suppression (TVS) | None | | | | |
| Power Consumption (cold) - at rated voltage | 25 Watts | | | | |
| Maximum Ambient Temperature | 122 °F | | | | |
| Voltage/Frequency | 24 VDC | | | | |
| Operating Voltage Range | +10%/-15% | | | | |
| Duty Cycle Rating | 100 % | | | | |
| Connector | Deutsch DT04-2P | | | | |
| Coil Nut Torque | 4.5 lbf in. | | | | |

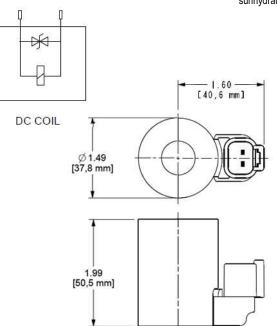
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740924D





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

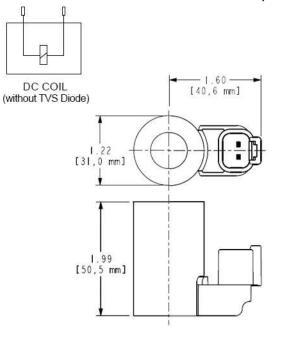
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740924L





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

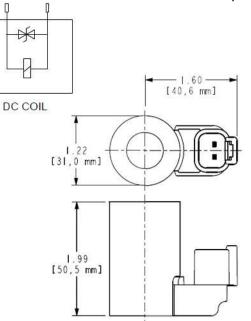
| DBAF | DBAFS | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| FPBE | FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 |
| 991717 | 991718 | 991719 | 991723001 | 991723002 | 991740002 | XMD-01 | XMD-02 | | |





sunhydraulics.com/model/740924LD





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

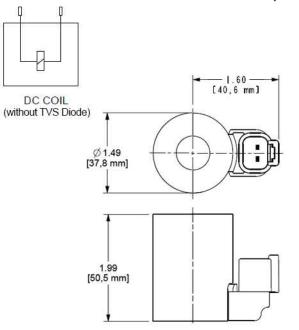
| DBAF DE | BAFS [| DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|---------|--------|------|------|------|------------------------|---------------------|---------------------|-----------|-----------|
| | | | | | 991711600 991740002 | 991712300 XMD-01 | 991712600 XMD-02 | 991713030 | 991713060 |





sunhydraulics.com/model/740928





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|------------------------------------------------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Maximum Current - FLeX Valves (100% Duty Cycle at Maximum Ambient Temperature) | 500 mA |
| Maximum Current - Non-FLeX Valves (100% Duty Cycle at Maximum Ambient Temperature) | 560 mA |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

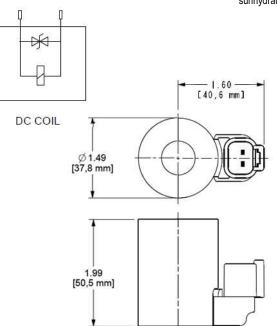
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740928D





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 25 Watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

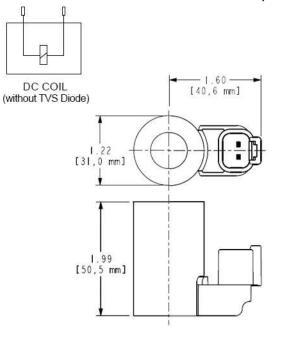
| DBAF | DBAFS | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | DFEI | DFEJ |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|-----------|
| DFFI | DFFJ | DLDF | DLDFS | DMBF | DNBF | DTAF | DTAFS | DTBF | DTCF |
| DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | FMDG | FPBF | FPBG | FPBI |
| FPBJ | FPBU | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN |
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | 991718 | 991719 | 991723001 |
| 991723002 | 991740001 | XMD-01 | XMD-02 | | | | | | |





sunhydraulics.com/model/740928L





TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF DE | BAFS [| DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD |
|---------|--------|------|------|------|------------------------|---------------------|---------------------|-----------|-----------|
| | | | | | 991711600 991740002 | 991712300 XMD-01 | 991712600 XMD-02 | 991713030 | 991713060 |





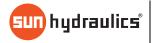
sunhydraulics.com/model/740928LD



TECHNICAL DATA

| Operating Temperature Range | -40 to 230 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 17 Watts |
| Maximum Ambient Temperature | 212 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +10%/-15% |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 4.5 lbf in. |

| DBAF | DFBD | DFBE | DMBD | DNBD | DTAF | DTAFS | DTBF | FPBD | FPBE | |
|--------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--|
| FPBM | FPBN | RPEI | 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991717 | |
| 991718 | 991719 | 991723001 | 991723002 | 991740002 | XMD-01 | XMD-02 | | | | |

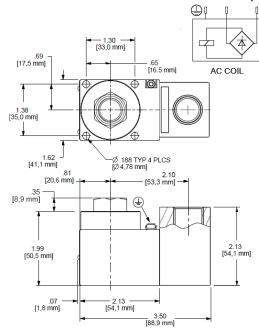


747 Series, 115 VAC hazardous location coil with 180 Deg M20 x 1.5 connector - ATEX, IECEX, CSA



sunhydraulics.com/model/747JM11BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

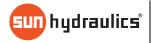
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 115 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

1. Mount coil onto spool (tube) body. NOTES

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torgue to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |
|--------------|-------|------|------|------|-------|------|------|------|------|---------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
| © 2023 Sun I | - | | | | | | | | 12 | 2 of 20 |

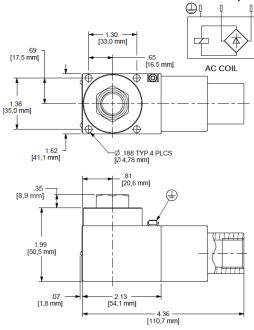
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JM11CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

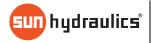
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 115 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF DFEI | DBAFS DFEJ | DFBD DFFI | DFBE DFFJ | DFBF DLDF | DFBG DLDFS | DFCI DMBD | DFCJ DMBF | DFDI DNBD | DFDJ DNBF | |
|--------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--|
| | | | | | | | | | | |

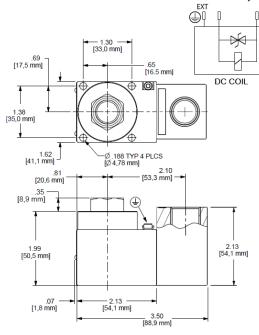
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JM12BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 12 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

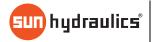
NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

INCLUDED COMPONENTS

| Part | Description | Quantity |
|-------------|----------------------------------|----------|
| 375-048-H00 | Nut | 1 |
| 500-101-016 | O-Ring | 1 |
| 747-JM12BDF | Coil Accessory - Explosion Proof | 1 |

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

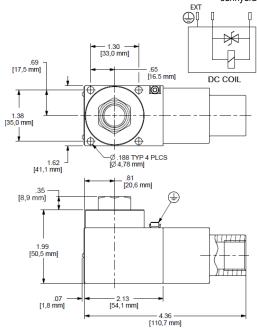


747 Series, 12 VDC hazardous location coil with 90 Deg M20 x 1.5 connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JM12CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 12 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

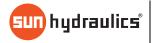
NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- For proportional valve applications, the maximum current of 590mA has been established so a proportional valve can function optimally under a variety of ambient temperatures.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.

INCLUDED COMPONENTS

| Part | Description | Quantity |
|-------------|----------------------------------|----------|
| 375-048-H00 | Nut | 1 |
| 500-101-016 | O-Ring | 1 |
| 747-JM12CDF | Coil Accessory - Explosion Proof | 1 |

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

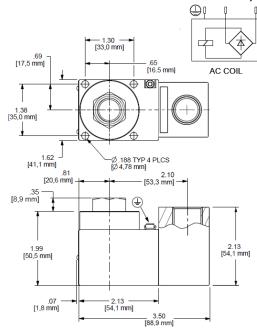


747 Series, 230 VAC hazardous location coil with 180 Deg M20 x 1.5 connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JM23BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

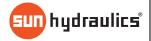
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 230 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
|------|-------|------|------|------|-------|------|------|------|------|--|
| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |

| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JM23CD



Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 230 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

- NOTES
- 1. Mount coil onto spool (tube) body.
 - 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
 - 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
 - 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
 - 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
 - For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
 - Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

INCLUDED COMPONENTS

| Part | Description | Quantity |
|-------------|----------------------------------|----------|
| 375-048-H00 | Nut | 1 |
| 500-101-016 | O-Ring | 1 |
| 747-JM23CDF | Coil Accessory - Explosion Proof | 1 |

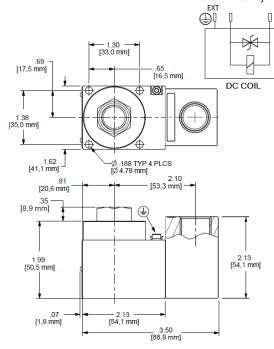
| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|------|-------|------|------|------|------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JM24BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

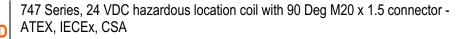
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 24 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

- NOTES 1. Mount coil onto spool (tube) body.
 - 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
 - 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
 - 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
 - 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
 - For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
 - Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |
|-----------|---------------|------|------|------|-------|------|------|------|--------|-----|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | |
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| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
|------|------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

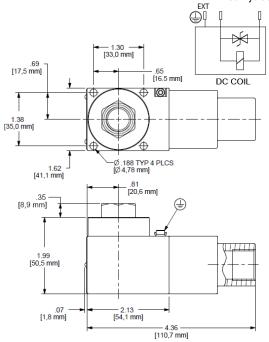






sunhydraulics.com/model/747JM24CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 24 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | M20 x 1.5 female connector |
| Coil Nut Torque | 4.5 lbf in. |

- NOTES 1. Mount coil onto spool (tube) body.
 - 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
 - 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
 - 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
 - 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
 - For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
 - Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |
|-----------|---------------|------|------|------|-------|------|------|------|--------|-----|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | |
| © 2023 Si | un Hydraulics | | | | | | | | 135 of | 208 |

| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
|------|------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

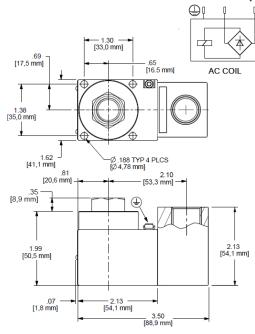


747 Series, 115 VAC hazardous location coil with 180 Deg 1/2" NPT connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JN11BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

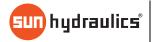
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 115 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF DBAFS DFBD DFBE DFBF DFBG DFCI DFCJ DFDI DFDJ DFEI DFEJ DFFI DFFJ DLDF DLDFS DMBD DMBF DNBD DNBF |
|----------------------------------------------------------------------------------------------------------|
| |

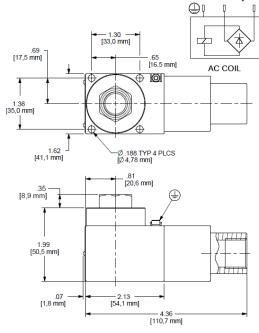
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JN11CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

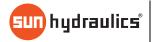
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 115 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DFEI | DFEJ | DFBD | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
|------|-------|------|------|------|-------|------|------|------|------|--|
| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |

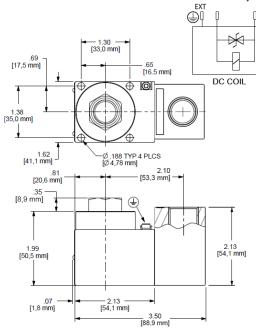
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |





sunhydraulics.com/model/747JN12BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

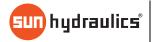
TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|---------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 12 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

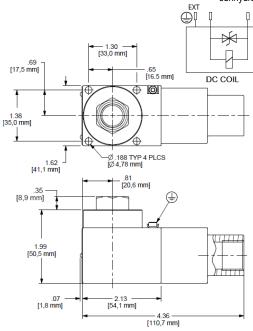


747 Series, 12 VDC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JN12CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F | | | |
|----------------------------------------------------------|---------------------------|--|--|--|
| Diametric Coil Clearance Requirement | 2.36 in. | | | |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts | | | |
| Voltage/Frequency | 12 VDC (-15%/+0%) | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | 1/2" NPT female connector | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

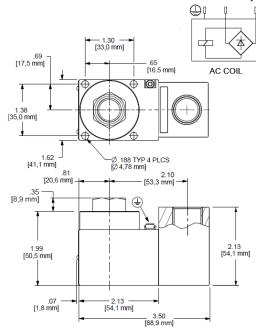


747 Series, 230 VAC hazardous location coil with 180 Deg 1/2" NPT connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JN23BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

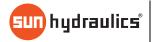
| Operating Temperature Range | -40 to 158 °F | | | |
|----------------------------------------------------------|-----------------------------|--|--|--|
| Diametric Coil Clearance Requirement | 2.36 in. | | | |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts | | | |
| Voltage/Frequency | 230 VAC 50/60 Hz (-15%/+0%) | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | 1/2" NPT female connector | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
|------|-------|------|------|------|-------|------|------|------|------|--|
| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |

| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
|------|-------|------|------|------|-------|------|------|------|------|
| FMDG | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

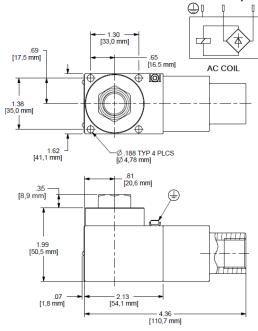


747 Series, 230 VAC hazardous location coil with 90 Deg 1/2" NPT connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JN23CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

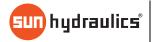
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|-----------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 230 VAC 50/60 Hz (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- A common practice to protect the internal bridge rectifier from unknown incoming voltage conditions is to install a TVS diode. For the 115-Vac coil, diode part number, 1.5KE250CA is recommended; for the 230-Vac coil, diode part number 1.5KE400CA is recommended. Depending on the application, diodes higher than 1500 W are recommended.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |
|------|-------|------|------|------|-------|--------|------|------|-------|--|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
| | DILO | DITT | DITO | DEDI | DEDIO | DIVIDD | | DNDD | DINDI | |

| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDG |
|------|-------|------|------|------|-------|------|------|------|------|
| FPBF | FREP | PRDF | PRDG | RPEI | RVCK | RVCL | RVCM | RVCN | |

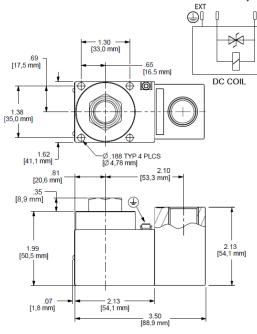


747 Series, 24 VDC hazardous location coil with 180 Deg 1/2" NPT connector - ATEX, IECEx, CSA



sunhydraulics.com/model/747JN24BD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

TECHNICAL DATA

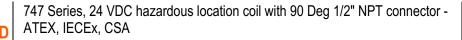
| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|---------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 24 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

NOTES • 1. Mount coil onto spool (tube) body.

- 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
- 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
- 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
- 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
- For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
- Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow
 enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ |
|------|-------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF |
| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |

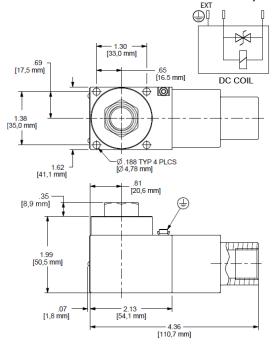






sunhydraulics.com/model/747JN24CD





Model 747 Series hazardous location coils are designed for Sun's FLeX Series switching and proportional solenoid valves and for newer Sun valves that use the 16-mm actuator tubes. All models include ATEX, IECEx, and NEC, CEC/CSA certifications.

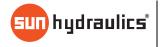
TECHNICAL DATA

| Operating Temperature Range | -40 to 158 °F |
|----------------------------------------------------------|---------------------------|
| Diametric Coil Clearance Requirement | 2.36 in. |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 30 watts |
| Voltage/Frequency | 24 VDC (-15%/+0%) |
| Duty Cycle Rating | 100 % |
| Connector | 1/2" NPT female connector |
| Coil Nut Torque | 4.5 lbf in. |

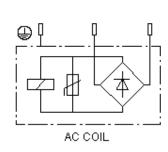
- NOTES 1. Mount coil onto spool (tube) body.
 - 2. A cable entry hole is provided to accommodate any suitable certified flameproof cable entry device. Cable entry temperature may exceed 70° C (158° F).
 - 3. Remove terminal box cover and connect electrical supply and earth to terminal block. Conductors according to Note 4. Note: coil is polarity insensitive. The center terminal is the internal ground. Replace cover and secure with the four screws (M4 x ,7). Torque to min 1.92
 - 4. Connect external ground. North American applications: external earth (ground) connections. Use where local codes or authorities permit or require external earth (ground) connections. Torque to 1.25 ft-lbs (1.7 N-m).
 - 5. When installing with multiple coils, the coils must be spaced a minimum of 0.875" (22.23 mm) apart to ensure adequate heat dissipation.
 - For installation in above-ground electrical systems in explosive atmospheres, procedures for all applicable codes must be observed. All work must be carried out by an electrician with adequate qualifications for hazardous locations.
 - Sun's 747 Series hazardous location coil requires more clearance than the FLeX 740 series coil. Sun manifolds with more than one cavity may not allow enough clearance for these coils. An additional 2.00" (50,8 mm) beyond the valve extension is needed for coil installation

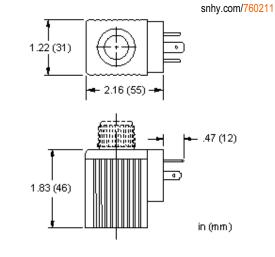
| DBAF | DBAFS | DFBD | DFBE | DFBF | DFBG | DFCI | DFCJ | DFDI | DFDJ | |
|-----------|---------------|------|------|------|-------|------|------|------|-----------|----|
| DFEI | DFEJ | DFFI | DFFJ | DLDF | DLDFS | DMBD | DMBF | DNBD | DNBF | |
| DTAF | DTAFS | DTBF | DTCF | DTDF | DTDFS | DWBF | DWDF | FDEP | FMDF | |
| © 2023 Si | un Hydraulics | | | | | | | | 148 of 20 | 08 |

| FMDG | FPBF | FPBG | FPBI | FPBJ | FPBU | FREP | PRDF | PRDG | RPEI |
|------|------|------|------|-----------|-----------|-----------|-----------|--------|--------|
| RVCK | RVCL | RVCM | RVCN | 991711300 | 991711600 | 991712300 | 991712600 | XMD-01 | XMD-02 |









TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 12 watts |
| Voltage/Frequency | 115 VAC 50/60 Hz |
| Operating Voltage Range | +/- 20% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65 |
| Coil Nut Torque | 4.5 lbf in. |

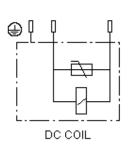
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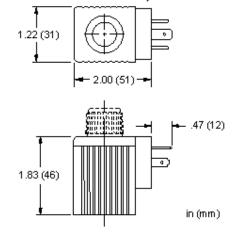












TECHNICAL DATA

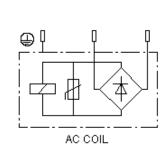
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 12 watts |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 20% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65 |
| Coil Nut Torque | 4.5 lbf in. |

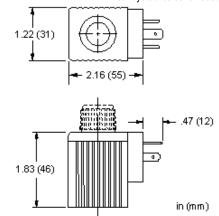
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TECHNICAL DATA

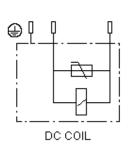
| Title | ISO/DIN 43650 Connector |
|-------------------------------------------------|----------------------------------------------------------|
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 12 watts |
| Voltage/Frequency | 230 VAC 50/60 Hz |
| Operating Voltage Range | +/- 20% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65 |
| Coil Nut Torque | 4.5 lbf in. |

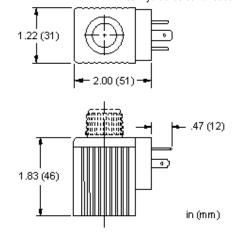
USED WITH











TECHNICAL DATA

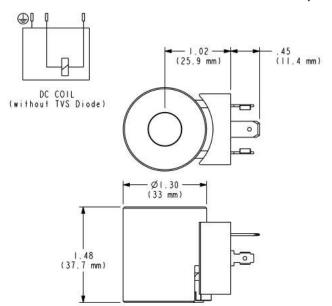
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 12 watts |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 20% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65 |
| Coil Nut Torque | 4.5 lbf in. |

USED WITH









TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 20.5 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 44 lbf in. |

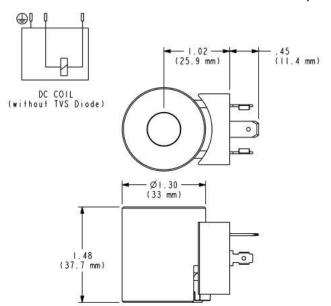
USED WITH

DNTC









TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 20.5 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 44 lbf in. |

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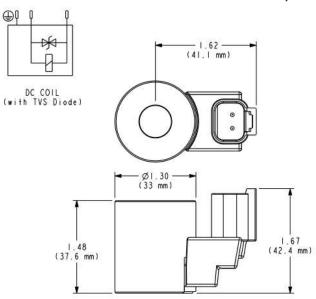
DNTC





sunhydraulics.com/model/769912D





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 20.5 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

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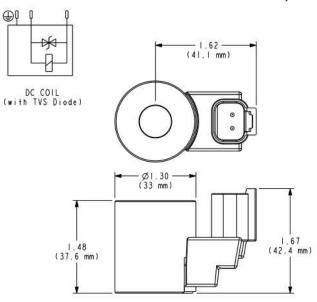
DMTA DNTC PRTS





sunhydraulics.com/model/769924D





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 20.5 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

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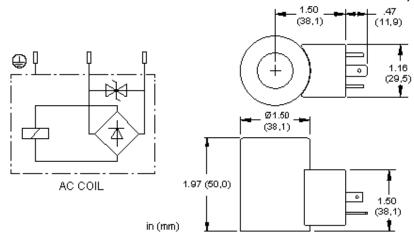
DMTA DNTC PRTS





snhy.com/770211





TECHNICAL DATA

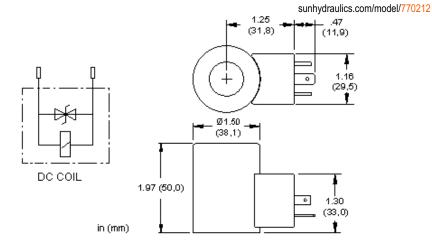
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 115 VAC 50/60 Hz |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DAAL | DAALS | DBAL | DBALS | DFCA | DFCB | DFDA | DFDB | DFEA | DFEB |
|------|-------|------|-------|-------|------|-------|-------|-------|-------|
| DFFA | DFFB | DLDA | DLDAS | DLDAZ | DMDA | DMDAS | DMDAZ | DNCA | DNCAZ |
| DNDA | DNDAS | DNDC | DNDY | DNDYS | DTCA | DTCAZ | DTDA | DTDAS | DWDA |
| HDDA | | | | | | | | | |









TECHNICAL DATA

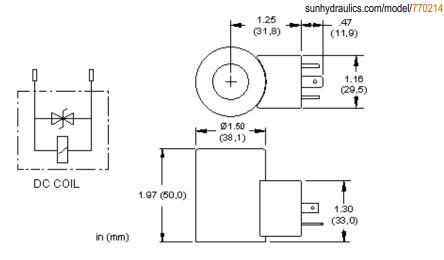
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-------|------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |









TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

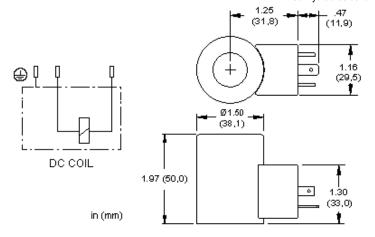
| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FPCC | FPCH |
|------|-------|------|------|-------|------|------|-------|------|------|
| EDEK | | | | | | | | | |
| FPFN | FPHN | | | | | | | | |





sunhydraulics.com/model/770214N





TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-------|------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |





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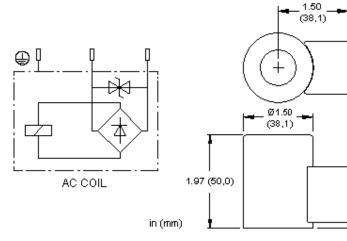
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TECHNICAL DATA

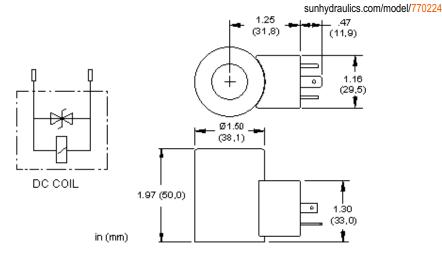
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 230 VAC 50/60 Hz |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DAAL | DAALS | DBAL | DBALS | DFCA | DFCB | DFDA | DFDB | DFEA | DFEB |
|------|-------|------|-------|-------|------|-------|-------|-------|-------|
| DFFA | DFFB | DLDA | DLDAS | DLDAZ | DMDA | DMDAS | DMDAZ | DNCA | DNCAZ |
| DNDA | DNDAS | DNDC | DNDY | DNDYS | DTCA | DTCAZ | DTDA | DTDAS | DWDA |
| HDDA | | | | | | | | | |









TECHNICAL DATA

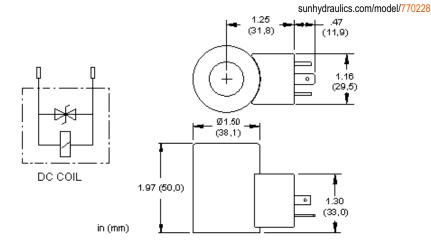
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-------|------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |









TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Connector Environment Rating | IP65/IP67 |
| Coil Nut Torque | 4.5 lbf in. |

| USED WITH | l | | | | | | | |
|-----------|-------|------|------|-------|------|------|-------|------|
| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA |

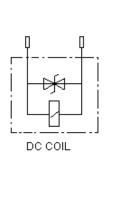


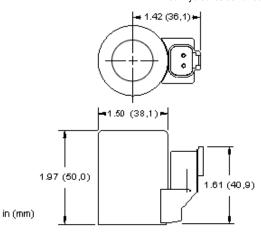
MODEL 770912



sunhydraulics.com/model/770912







TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Connector Environment Rating | IP69K |
| Coil Nut Torque | 4.5 lbf in. |

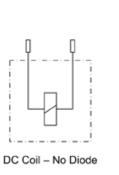
| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-----------|-----------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | 991723001 | 991723002 | | | | | | | |

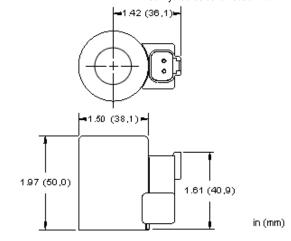




sunhydraulics.com/model/770912N







TECHNICAL DATA

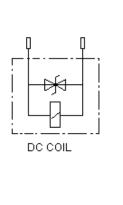
| Maximum Coil Temperature at 68°F (20°C) Ambient | 218ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Connector Environment Rating | IP69K |
| Coil Nut Torque | 4.5 lbf in. |

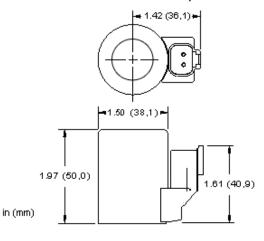
| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-----------|-----------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | 991723001 | 991723002 | | | | | | | |











TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 14 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Connector Environment Rating | IP69K |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDB | FPCC |
|------|-------|-----------|-----------|-------|------|------|-------|------|------|
| FPHK | RBAP | 991723001 | 991723002 | | | | | | |

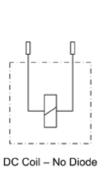


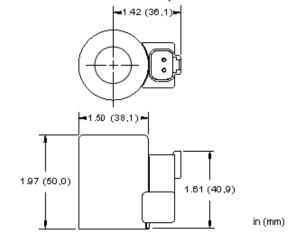
MODEL 770914N



sunhydraulics.com/model/770914N







TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) | | | |
|-------------------------------------------------|-----------------|--|--|--|
| Arc Suppression (TVS) | None | | | |
| Power Consumption (cold) - at rated voltage | 22 watts | | | |
| Maximum Ambient Temperature | 122 °F | | | |
| Voltage/Frequency | 14 VDC | | | |
| Operating Voltage Range | +/- 10% nominal | | | |
| Connector | Deutsch DT04-2P | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DMDA DMDAS DNCA DNDA DNDAS DNDC DNDY DNDYS FMDB FPC FPHK RBAP 991723001 991723002 | FPHK | RBAP 991723001 | 991723002 | NDAS DNDC | DNDY | DNDYS | FMDB | FPCC |
|--------------------------------------------------------------------------------------|------|----------------|-----------|-----------|------|-------|------|------|
|--------------------------------------------------------------------------------------|------|----------------|-----------|-----------|------|-------|------|------|

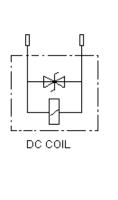


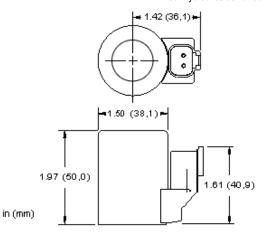
MODEL 770924



sunhydraulics.com/model/770924







TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218°F (105°C) | | | |
|-------------------------------------------------|-----------------|--|--|--|
| Arc Suppression (TVS) | Included | | | |
| Power Consumption (cold) - at rated voltage | 22 watts | | | |
| Maximum Ambient Temperature | 122 °F | | | |
| Voltage/Frequency | 24 VDC | | | |
| Operating Voltage Range | +/- 10% nominal | | | |
| Duty Cycle Rating | 100 % | | | |
| Connector | Deutsch DT04-2P | | | |
| Connector Environment Rating | IP69K | | | |
| Coil Nut Torque | 4.5 lbf in. | | | |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-----------|-----------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | 991723001 | 991723002 | | | | | | | |

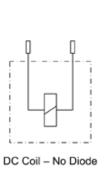


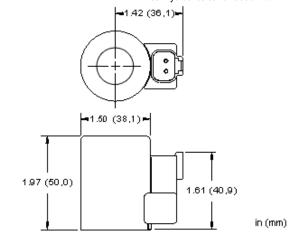
MODEL 770924N



sunhydraulics.com/model/770924N







TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Connector Environment Rating | IP69K |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | FMDB |
|------|-----------|-----------|------|-------|------|------|-------|------|------|
| FPCC | FPCH | FPFK | FPHK | HDDA | PRDM | PRDN | PSDL | PSDP | RBAN |
| RBAP | 991723001 | 991723002 | | | | | | | |

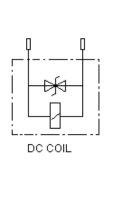


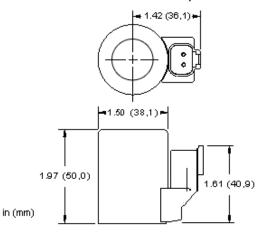
MODEL 770928



sunhydraulics.com/model/770928







TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 218ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 28 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Connector Environment Rating | IP69K |
| Coil Nut Torque | 4.5 lbf in. |

| DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC | DNDY | DNDYS | FMDA | 991723001 |
|-----------|-------|------|------|-------|------|------|-------|------|-----------|
| 991723002 | | | | | | | | | |

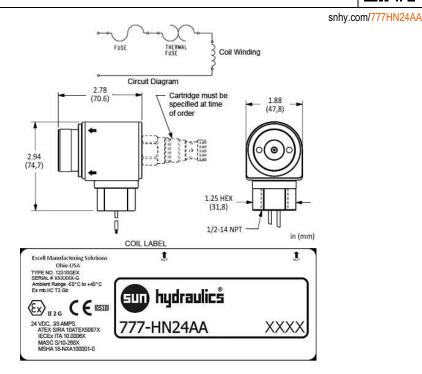




24 VDC explosion proof coil, twin leads, 1/2" NPT conduit connector, ATEX and IECEx certified







Sun offers explosion proof coils for use in hazardous environments. Certification requires the explosion proof coil to be sold as a complete cartridge/coil assembly. Coil cannot be purchased separately. For ordering information, please see the coil option section on the applicable cartridge product page.

TECHNICAL DATA

| Ambient Temperature Range | -58 to 104 °F |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Power Consumption (cold) - at rated voltage | 22 watts |
| Nominal Current | 0.93 amps at 68°F (20°C), 24 VDC |
| Diametric Coil Clearance Requirement | 2.125 in. |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Current Fuse (non-resettable) | 3 amps |
| Thermal Fuse (non-resettable) | 378 °F |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG X 10 ft. (3 m), 1/2-14 NPT female conduit connector |
| Connector Environment Rating | IP67 |
| Lead Wire Rating | AWM styles 3289 150°C - 3271 125°C, 600V VW-1 LL30433 CSA CL1251 125°C or CL1503 150°C, XLPE 600V 18 AWG |
| Coil Nut Torque | 6 - 7 lbf ft |

- Coil/cartridge assembly can be mounted in any position, however, coil orientation on cartridge assembly is critical. Arrows on coil label must face towards coil nut.
 - Coil cannot be purchased separately and must be configured along with the cartridge valve. Please see the applicable cartridge product page for ordering information.
 - Sun's explosion proof coil requires more clearance than 770 series coil. Sun manifolds with more than one cavity may not allow enough clearance for explosion proof coils.
 - For proportional valve applications, the maximum current of 590mA has been established so a proportional valve can function optimally under a variety of ambient temperatures.

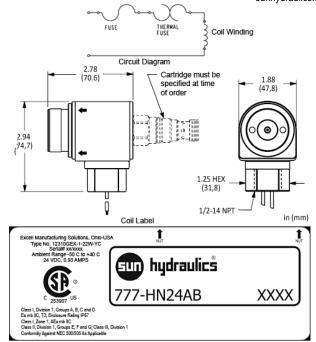
| DAAL DFFA | DAALS DFFB | DBAL DLDA | DBALS DLDAS | DFCA DMDA | DFCB DMDAS | DFDA DNCA | DFDB DNDA | DFEA DNDAS | DFEB DNDC |
|--------------|---------------|--------------|----------------|--------------|---------------|--------------|--------------|---------------|--------------|
| DNDY | DNDYS | DTCA | DTDA | DTDAS | DWDA | FMDA | FMDB | FPCC | FPCH |
| FPFK | FPHK | HDDA | PRDL | PRDM | PRDN | PRDP | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |





sunhydraulics.com/model/777HN24AB





Sun offers explosion proof coils for use in hazardous environments. Certification requires the explosion proof coil to be sold as a complete cartridge/coil assembly. Coil cannot be purchased separately. For ordering information, please see the coil option section on the applicable cartridge product page.

TECHNICAL DATA

| Ambient Temperature Range | -58 to 104 °F |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Power Consumption (cold) - at rated voltage | 22 watts |
| Nominal Current | 0.93 amps at 68°F (20°C), 24 VDC |
| Diametric Coil Clearance Requirement | 2.125 in. |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Current Fuse (non-resettable) | 3 amps |
| Thermal Fuse (non-resettable) | 378 °F |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG X 10 ft. (3 m), 1/2-14 NPT female conduit connector |
| Lead Wire Rating | AWM styles 3289 150°C - 3271 125°C, 600V VW-1 LL30433 CSA CL1251 125°C or CL1503 150°C, XLPE 600V 18 AWG |
| Coil Nut Torque | 6 - 7 lbf ft |

- Coil/cartridge assembly can be mounted in any position, however, coil orientation on cartridge assembly is critical. Arrows on coil label must face towards coil nut.
 - Coil cannot be purchased separately and must be configured along with the cartridge valve. Please see the applicable cartridge product page for ordering information.
 - Sun's explosion proof coil requires more clearance than 770 series coil. Sun manifolds with more than one cavity may not allow enough clearance for explosion proof coils.
 - For proportional valve applications, the maximum current of 590mA has been established so a proportional valve can function optimally under a variety of ambient temperatures.

| DAAL | DAALS | DBAL | DBALS | DFCA | DFCB | DFDA | DFDB | DFEA | DFEB |
|------|-------|------|-------|-------|-------|------|------|-------|------|
| DFFA | DFFB | DLDA | DLDAS | DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC |
| DNDY | DNDYS | DTCA | DTDA | DTDAS | DWDA | FMDA | FMDB | FPCC | FPCH |
| FPFK | FPHK | HDDA | PRDL | PRDM | PRDN | PRDP | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |

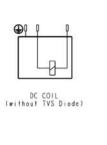


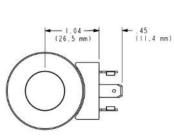
778 Series, 12 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode, common cavity

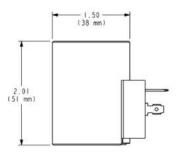


sunhydraulics.com/model/778212









TECHNICAL DATA

| Arc Suppression (TVS) | None |
|----------------------------------------------------------|--------------------------------------------------------------|
| Maximum Ambient Temperature | 104 °F |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 36.9 watts |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3- pin |
| Coil Nut Torque | 3.5 - 3.9 lbf ft |

USED WITH

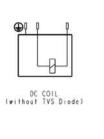


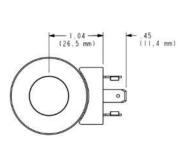
778 Series, 24 VDC coil with ISO/DIN 43650, Form A connector without TVS Diode, common cavity

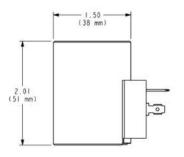


sunhydraulics.com/model/778224









TECHNICAL DATA

| Arc Suppression (TVS) | None |
|----------------------------------------------------------|--------------------------------------------------------------|
| Maximum Ambient Temperature | 104 °F |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 39.7 watts |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3- pin |
| Coil Nut Torque | 3.5 - 3.9 lbf ft |

USED WITH

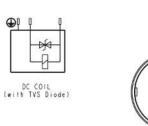


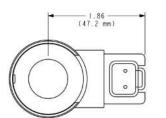
778 Series, 12 VDC coil with Deutsch DT04-2P connector with TVS Diode, common cavity

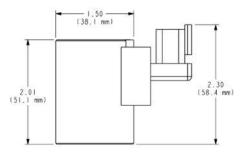


sunhydraulics.com/model/778912D









TECHNICAL DATA

| Arc Suppression (TVS) | Included |
|----------------------------------------------------------|------------------|
| Maximum Ambient Temperature | 104 °F |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 36.9 watts |
| Voltage/Frequency | 12 VDC |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 3.5 - 3.9 lbf ft |

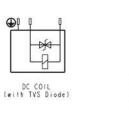
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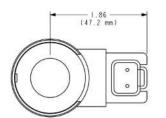


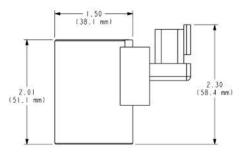


sunhydraulics.com/model/778924D









TECHNICAL DATA

| Arc Suppression (TVS) | Included |
|----------------------------------------------------------|------------------|
| Maximum Ambient Temperature | 104 °F |
| Power Consumption at 68°F (20°C) cold - at rated voltage | 39.7 watts |
| Voltage/Frequency | 24 VDC |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 3.5 - 3.9 lbf ft |

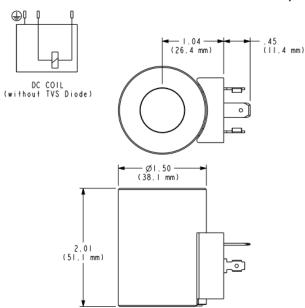
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sunhydraulics.com/model/779212





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 24 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 44 lbf in. |

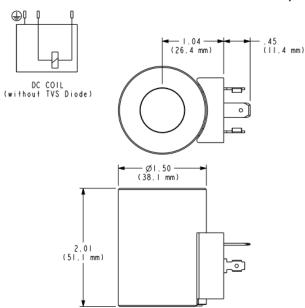
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sunhydraulics.com/model/779224





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|----------------------------------------------------------|
| Arc Suppression (TVS) | None |
| Power Consumption (cold) - at rated voltage | 24 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | ISO4400 - EN/DIN175301-803, Form A (ISO/DIN 43650) 3-pin |
| Coil Nut Torque | 44 lbf in. |

USED WITH

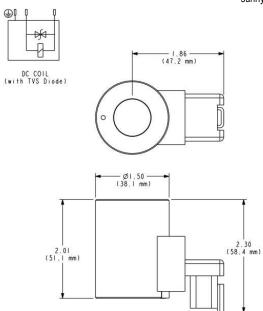


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sunhydraulics.com/model/779912D





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 24 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

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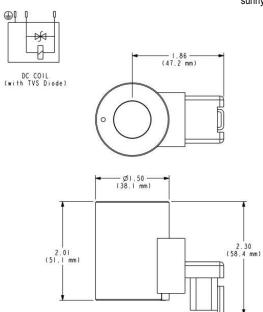


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sunhydraulics.com/model/779924D





TECHNICAL DATA

| Operating Temperature Range | -4 to 215 °F |
|---------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 24 Watts |
| Maximum Ambient Temperature | 104 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

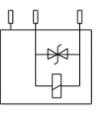
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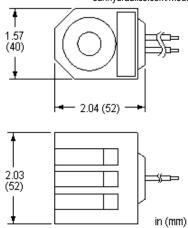


sunhydraulics.com/model/780712D





DC Coil



TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 221°F (105°C) |
|-------------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 24 in. (610 mm) |
| Coil Nut Torque | 44 lbf in. |

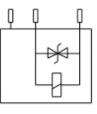
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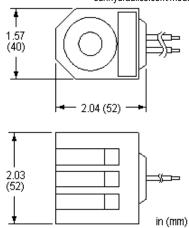


sunhydraulics.com/model/780724D





DC Coil



TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 221°F (105°C) |
|-------------------------------------------------|------------------------------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Twin lead 18 AWG x 24 in. (610 mm) |
| Coil Nut Torque | 44 lbf in. |

USED WITH

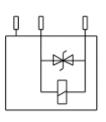


780 Series, 12 VDC coil with Deutsch DT04-2P connector and TVS Diode - common cavity

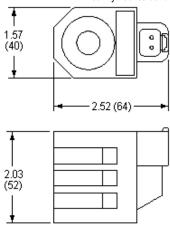


sunhydraulics.com/model/780912D





DC Coil



TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 221ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 12 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

USED WITH

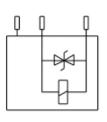


780 Series, 24 VDC coil with Deutsch DT04-2P connector and TVS Diode - common cavity

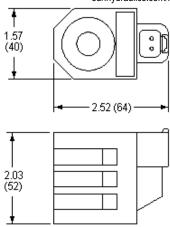


sunhydraulics.com/model/780924D





DC Coil



TECHNICAL DATA

| Maximum Coil Temperature at 68°F (20°C) Ambient | 221ºF (105ºC) |
|-------------------------------------------------|-----------------|
| Arc Suppression (TVS) | Included |
| Power Consumption (cold) - at rated voltage | 22 watts |
| Maximum Ambient Temperature | 122 °F |
| Voltage/Frequency | 24 VDC |
| Operating Voltage Range | +/- 10% nominal |
| Duty Cycle Rating | 100 % |
| Connector | Deutsch DT04-2P |
| Coil Nut Torque | 44 lbf in. |

USED WITH





sunhydraulics.com/model/7902B12V





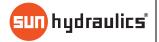
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% | |
|------------------------------|-------------------------------------|---|
| Output Current | 1200 mA | |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments | |
| Operating Temperature Range | -4 - 158 °F | |
| Analog Input Range | 0-10V | |
| Analog Input Impedance | 13 Kilo-ohms | |
| Card Function | Ground Option | |
| Voltage/Frequency | 12 VDC | - |
| Connector | ISO/DIN 43650, Form A, 4-pin | |
| Connector Environment Rating | IP65 | |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN | PRDP |
|------|------|------|------|--------|--------|--------|------|------|------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | | | |





snhy.com/7902B24A





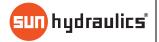
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% | |
|------------------------------|-------------------------------------|--|
| Output Current | 600 mA | |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments | |
| Operating Temperature Range | -4 - 158 °F | |
| Analog Input Range | 0-20 mA | |
| Analog Input Impedance | 250 ohms | |
| Card Function | Ground Option | |
| Voltage/Frequency | 24 VDC | |
| Connector | ISO/DIN 43650, Form A, 4-pin | |
| Connector Environment Rating | IP65 | |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN | PRDP |
|------|------|------|------|--------|--------|--------|------|------|------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | | | |





snhy.com/7902B24V



| DIN 43 | 2[0]1 650-Form A Connector | | Infrared Communication Windows 3.25 |
|----------|--------------------------------|------------|----------------------------------------------|
| Terminal | Function | | (82.6) |
| 1 | Supply Common | , ee e | |
| 2 | +V Supply | uss a | |
| 3 | Command Input | | |
| 4 | 790-2B***-Command Common | | |
| 4 | 790-2C***-+5V Reference | 1.49 | 2.50 |
| 4 | 790-2D***-Enable Input | + (37.9) → | (63.5) in (mm) |

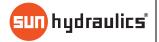
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% | |
|------------------------------|-------------------------------------|--|
| Output Current | 600 mA | |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments | |
| Operating Temperature Range | -4 - 158 °F | |
| Analog Input Range | 0-10V | |
| Analog Input Impedance | 13 Kilo-ohms | |
| Card Function | Ground Option | |
| Voltage/Frequency | 24 VDC | |
| Connector | ISO/DIN 43650, Form A, 4-pin | |
| Connector Environment Rating | IP65 | |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN | PRDP |
|------|------|------|------|--------|--------|--------|------|------|------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | | | |





sunhydraulics.com/model/7902C24V





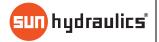
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% | |
|------------------------------|-------------------------------------|--|
| Output Current | 600 mA | |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments | |
| Reference Voltage | +5V at 1mA | |
| Operating Temperature Range | -4 - 158 °F | |
| Analog Input Range | 0-10V | |
| Analog Input Impedance | 13 Kilo-ohms | |
| Card Function | +5V Reference Option | |
| Voltage/Frequency | 24 VDC | |
| Connector | ISO/DIN 43650, Form A, 4-pin | |
| Connector Environment Rating | IP65 | |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| USED WITH | ł | | | | | | | | |
|--------------|--------------|--------------|--------------|----------------|----------------|----------------|------|------|------|
| FMDA PSDL | FMDB PSDP | FPCC RBAN | FPCH RBAP | FPFK 991700 | FPHK 991702 | PRDL 991704 | PRDM | PRDN | PRDP |





sunhvdraulics.com/model/7902D24V



| DIN 43 | 2[0]1 650-Form A Connector | | Infrared Communication Windows 3.25 |
|----------|---------------------------------|-------------------------------------------|----------------------------------------------|
| Terminal | Function | | (82.6) |
| 1 | Supply Common | , ee al a a a a a a a a a a a a a a a a a | |
| 2 | +V Supply | ADD or | |
| 3 | Command Input | | |
| 4 | 790-2B***-Command Common | | |
| 4 | 790-2C***-+5V Reference | 1.49 | 2.50 |
| | 790-2D***-Enable Input | 75,780 | 20.001202 |

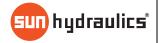
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% |
|-----------------------------|-------------------------------------|
| Output Current | 600 mA |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments |
| Operating Temperature Range | -4 - 158 °F |
| Analog Input Range | 0-10V |
| Analog Input Impedance | 13 Kilo-ohms |
| Card Function | Enable Signal Option |
| Voltage/Frequency | 24 VDC |
| Connector | ISO/DIN 43650, Form A, 4-pin |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN | PRDP |
|------|------|------|------|--------|--------|--------|------|------|------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | | | |





inhvdraulics.com/model/7904A12V



|] סדס | 1 2 3 ••• ••• 6 5 4 4-6P Connector | 10 I | Sunhydraulics.com/model//90 |
|----------|------------------------------------------------|--------|-----------------------------|
| al | Function | S.a. | |
| | +V Supply | | |
| | Command Input | | |
| | Supply Common | | |
| | +5 V Reference | 1.49 | 2.50 |
| | Command Common | (37,9) | (63,5) |
| | Enable | | in (mm) |
| | | | |

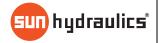
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% |
|-----------------------------|-------------------------------------|
| Output Current | 1200 mA |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments |
| Reference Voltage | +5V at 1mA |
| Operating Temperature Range | -20 to 70 °C |
| Analog Input Range | 0-10V |
| Analog Input Impedance | 13 Kilo-ohms |
| Card Function | All Options |
| Voltage/Frequency | 12 VDC |
| Connector | Deutsch DT04-6P |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| | FMDA PSDL | FMDB PSDP | FPCC RBAN | FPCH RBAP | FPFK 991700 | FPHK 991702 | PRDL 991704 | PRDM 991706003 | PRDN 991706006 | PRDP |
|--|--------------|--------------|--------------|--------------|----------------|----------------|----------------|-------------------|-------------------|------|
|--|--------------|--------------|--------------|--------------|----------------|----------------|----------------|-------------------|-------------------|------|





sunhydraulics.com/model/7904A24A



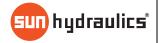
The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% |
|-----------------------------|-------------------------------------|
| Output Current | 600 mA |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments |
| Reference Voltage | +5V at 1mA |
| Operating Temperature Range | -4 - 158 °F |
| Analog Input Range | 0-20 mA |
| Analog Input Impedance | 250 ohms |
| Card Function | All Options |
| Voltage/Frequency | 24 VDC |
| Connector | Deutsch DT04-6P |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN | PRDP |
|------|------|------|------|--------|--------|--------|-----------|-----------|------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | 991706003 | 991706006 | |





...



|) סדס | 1 2 3 ••• ••• 6 5 4 4-6P Connector | | Sunhydraulics.com/model/7904 |
|----------|------------------------------------------------|--------|------------------------------|
| Terminal | Function | | |
| 1 | +V Supply | | |
| 2 | Command Input | | |
| 3 | Supply Common | | |
| 4 | +5 V Reference | 1.49 | 2.50 |
| 5 | Command Common | (37,9) | (63,5) |
| 6 | Enable | | in (mm) |

The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

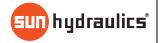
| Supply Voltage | Equals coil voltage within +/-10% |
|-----------------------------|-------------------------------------|
| Output Current | 600 mA |
| Dither Frequency | Off, 80-300 Hz, in 20 Hz increments |
| Reference Voltage | +5V at 1mA |
| Operating Temperature Range | -4 - 158 °F |
| Analog Input Range | 0-10V |
| Analog Input Impedance | 13 Kilo-ohms |
| Card Function | All Options |
| Voltage/Frequency | 24 VDC |
| Connector | Deutsch DT04-6P |

A source type input is required. A sinking type analog input will damage the amplifier. NOTES

USED WITH

| FMDA | FMDB | FPCC | FPCH | FPFK | FPHK | PRDL | PRDM | PRDN |
|------|------|------|------|--------|--------|--------|-----------|-----------|
| PSDL | PSDP | RBAN | RBAP | 991700 | 991702 | 991704 | 991706003 | 991706006 |

PRDP





sunhydraulics.com/model/7904E12V

3.00

(76.2)

in (mm)





The Power Saver is a compact, low profile coil/controller combination for use with switching solenoid valves. The Power Saver controls current to the coil to minimize power consumption. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit. The Power Saver is intended for use on continuous duty applications (minimum switches between on and off).

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% |
|-------------------------------------|-----------------------------------|
| Operating Temperature Range | -4 - 158 °F |
| Analog Input Impedance | 13 Kilo-ohms |
| Card Function | Power Saver |
| Output Current for 6 seconds (max.) | 2000 mA |
| Output Current for holding (max.) | 1600 mA |
| Voltage/Frequency | 12 VDC |
| Connector | Deutsch DT04-6P |

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| DAAL | DAALS | DBAL | DBALS | DFDA | DLDA | DLDAS | DMDA | DMDAS | DNCA |
|----------------|-----------------|-------------------|-------------------|-------|------|-------|------|-------|--------|
| DNDA 991702 | DNDAS 991704 | DNDC 991706003 | DNDY 991706006 | DNDYS | DTCA | DTDA | DWDA | HDDA | 991700 |
| 99170Z | 991704 | 991706003 | 991700000 | | | | | | |



MODEL 7904E24V



sunhydraulics.com/model/7904E24V





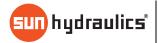
The Power Saver is a compact, low profile coil/controller combination for use with switching solenoid valves. The Power Saver controls current to the coil to minimize power consumption. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit. The Power Saver is intended for use on continuous duty applications (minimum switches between on and off).

TECHNICAL DATA

| Supply Voltage | Equals coil voltage within +/-10% |
|-------------------------------------|-----------------------------------|
| Operating Temperature Range | -4 to 158 °F |
| Analog Input Impedance | 13 Kilo-ohms |
| Card Function | Power Saver |
| Output Current for 6 seconds (max.) | 2000 mA |
| Output Current for holding (max.) | 1600 mA |
| Voltage/Frequency | 24 VDC |
| Connector | Deutsch DT04-6P |

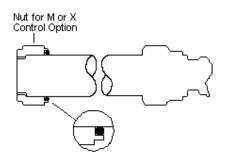
NOTES A source type input is required. A sinking type analog input will damage the amplifier.

| USED WITH | I | | | | | | | | |
|-----------|-------|------|-------|--------|--------|--------|-----------|-----------|------|
| DAALS | DBALS | DFDA | DLDAS | DMDA | DMDAS | DNCA | DNDA | DNDAS | DNDC |
| DNDY | DNDYS | DTCA | HDDA | 991700 | 991702 | 991704 | 991706003 | 991706006 | |



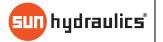


sunhydraulics.com/model/990770006



Sun coil seal kits for full flow and proportional solenoid operated cartridges contain all replacement seals, a replacement coil nut and installation instructions. Please note: All seals contained in a coil seal kit are constructed of Viton.

| DMDA | DNCA | DNDA | DNDC | DNDY | DTCA | FMDA | FMDB | FPCC | FPCH |
|------|------|------|------|------|------|------|------|------|------|
| FPFK | FPHK | HDDA | PRDL | PRDM | PRDN | PRDP | PSDL | PSDP | RBAN |
| RBAP | | | | | | | | | |



MODEL 991700



sunhydraulics.com/model/991700



Sun's Hand Held Programmer (HHP) provides a convenient method to access configuration settings in Sun's 790 Series Embedded Digital Proportional Valve Amplifier. Simply plug the adapter cable into the programmer and connect the infrared-end into the embedded electronics coil and it is ready to use. The programmer is lightweight and compact for easy handling.

TECHNICAL DATA

| Supply Voltage | 9 VDC (requires standard 9 Volt battery/format EN22, 6LR61, 6AM6) |
|-----------------------------|-------------------------------------------------------------------|
| Operating Temperature Range | 0 to 70 °C |

| 7902B12A | 7902B12V | 7902B24A | 7902B24V | 7902C12V | 7902C24V | 7902D12A | 7902D24A | 7902D24V | 7902E12V |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7902E24V | 7902F12V | 7902F24V | 7904A12A | 7904A12V | 7904A24A | 7904A24V | 7904E12V | 7904E24V | 7904F12V |
| 7904F24V | 991702 | 991704 | | | | | | | |



MODEL 991704



sunhydraulics.com/model/991704



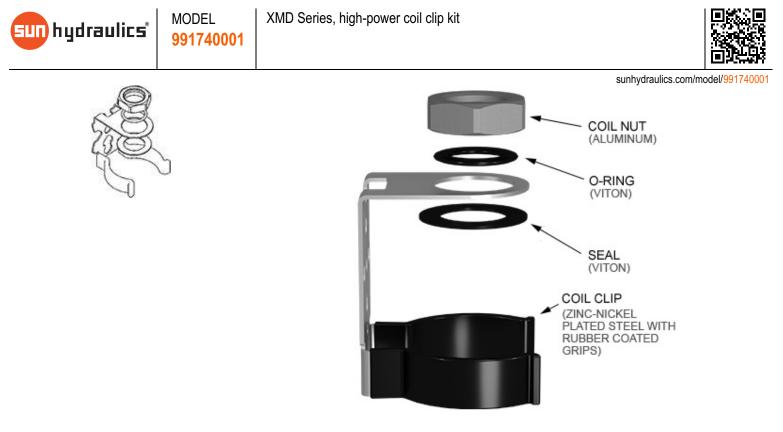


Sun's USB Infrared Cable Adapter provides a convenient interface between Sun's 790 Series Embedded Digital Proportional Valve Amplifier and a Windows based PC. Included with the Cable Adaptor is a USB memory key containing Sun's Amplifier Set Up Software.

TECHNICAL DATA

| Supply Voltage | USB port powered | | |
|-----------------------------|------------------|--|--|
| Operating Temperature Range | -4 - 140 °F | | |
| Cable Length | 6 ft | | |

| 7902B12A | 7902B12V | 7902B24A | 7902B24V | 7902C12V | 7902C24V | 7902D12A | 7902D24A | 7902D24V | 7902E12V |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7902E24V 7904F24V | 7902F12V | 7902F24V | 7904A12A | 7904A12V | 7904A24A | 7904A24V | 7904E12V | 7904E24V | 7904F12V |



This coil clip kit is designed to attach Sun's XMD Series Driver to the FLeX high-power coil.

NOTES The coil clip included in this kit can also be used to attach to 770 Series coils. For 770 Series coils, the coil nut, o-ring, and seal included in this kit are not needed. Purchase <u>753073</u> for coil clip by itself.

USED WITH

XMD-01 XMD-02

| sun hydraulics | MODEL 991740002 | XMD Series, low-power coil clip kit |
|----------------|--------------------|----------------------------------------------------------------------------------------------|
| | | sunhydraulics.com/model/991740002 |
| | 5 | COIL NUT (ALUMINUM) O-RING (VITON) |
| | | SEAL (VITON) COIL CLIP (ZINC-NICKEL PLATED STEEL WITH RUBBER COATED GRIPS) |

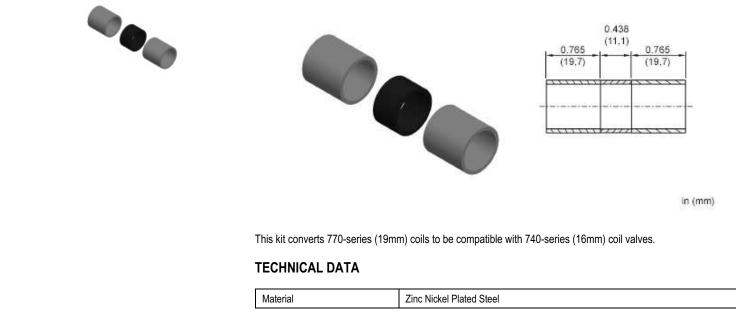
This coil clip kit is designed to attach Sun's XMD Series Driver to the FLeX low-power coil.

| USED WIT | н | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|
| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | XMD-01 | XMD-02 |





sunhydraulics.com/model/991747





COIL CLIP (ZINC-NICKEL PLATED STEEL WITH RUBBER COATED GRIPS)

This coil clip is designed to attach Sun's XMD Series Driver to the 770 Series coils. Because it is compatible with the existing 770 series nut, no additional hardware is required.

| NOTES | This coil clip attaches to both 740 Series high-power and 770 Series coils. For 740 Series high-power coil, purchase kit 991-740-001 which includes |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 10120 | required coil nut, o-ring, and seal. |

| USED WITH | | | | | | | | | |
|-------------------|------------------|--------------------|------------------|---------|--------|--------|--------|--------|--------|
| 770212 770914N | 770214 770924 | 770214N 770924N | 770224 770928 | 770224N | 770228 | 770714 | 770724 | 770912 | 770914 |

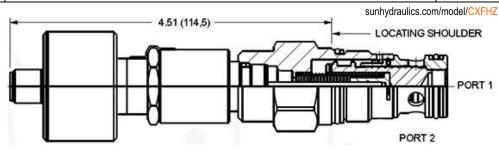


sunhydraulics.com/model/991770001



2





Free-flow, nose-to-side check valves are on/off circuit components that allow free flow from the inlet (port 1) to the outlet (port 2) and block flow in the opposite direction.

This valve incorporates a position switch to provide confirmation that the valve is in the transition position or seated (closed).

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi | | |
|-------------------------------------------|---------------------|--|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. | | |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi | | |
| Seal kit - Cartridge | Buna: 990203007 | | |
| Seal kit - Cartridge | Viton: 990203006 | | |

CONFIGURATION OPTIONS

Model Code Example: CXFHZCN

| CRACKING PRESSURE | (C) | SEAL MATERIAL | (N) |
|-------------------------|-----|---------------|-----|
| C 30 psi (2 bar) | | N Buna-N | |
| A 4 psi (0,3 bar) | | V Viton | |



2



sunhydraulics.com/model/CXHHZ

Free-flow, nose-to-side check valves are on/off circuit components that allow free flow from the inlet (port 1) to the outlet (port 2) and block flow in the opposite direction.

This valve incorporates a position switch to provide confirmation that the valve is in the transition position or seated (closed).

TECHNICAL DATA

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

| Maximum Operating Pressure | 5000 psi |
|-------------------------------------------|-------------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 drops/min. |
| Transition leakage at 110 SUS (24 cSt) | 2 in³/min.@1000 psi |
| Seal kit - Cartridge | Buna: 990016007 |
| Seal kit - Cartridge | Polyurethane: 990016002 |
| Seal kit - Cartridge | Viton: 990016006 |

CONFIGURATION OPTIONS

Model Code Example: CXHHZCN

| CRACKING PRESSURE | (C) | (N) | |
|-------------------------|-----|----------|--|
| C 30 nsi (2 har) | | N Buna-N | |

A 4 psi (0,3 bar)

V Viton

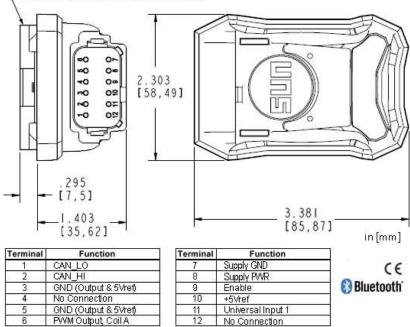


Configurable single-output driver used with proportional and solenoid-operated switching valves



- INSTALLATION BRACKET INCLUDED

sunhydraulics.com/model/XMD-01



The XMD module is an electro-hydraulic driver for use with mobile and industrial hydraulic equipment. It is configurable using Sun's free CANpoint XMD Configuration Software and a CAN-to-USB interface cable connected to a computer or via the XMD Mobile app. The XMD driver can control a variety of electrically operated hydraulic actuators used in applications for on- and off-highway equipment including but not limited to agriculture, forestry, construction, marine, earth moving, and material handling. Tuned for optimal flow and pressure control using Sun valves, the XMD driver delivers repeatable and reliable results for your demanding applications.

TECHNICAL DATA

| Supply Voltage | 9-32 VDC |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Number of Outputs | 1 |
| Output Current | 0 to 3000 mA |
| Dither Frequency | 33-500 Hz |
| Number of Universal Inputs | 1 |
| Input Range | 0-5V, 0-10V, 4-20 mA, digital, pulse (60 Hz-10 kHz), PWM (60 Hz-10 kHz), resistive (0-100 k $\Omega)$ |
| Reference Voltage | 5 Vdc, ±0.1 Vdc (250 mA max) |
| Operating Temperature Range | -40 - 85 °C |
| Vibration | 33.3 Hz 6.8g Peak (Spec: S-367 Section 11.0) |
| Shock | 49g Peak (Spec: S-367 Section 12.0) |
| U.S. Patent # | Pending |

NOTES

Installation bracket and mounting hardware are included. Coil clips for high and low-power FLeX Series coils are sold separately.

| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991720300 | 991720600 | 991721300 | 991721600 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 991722 | 991723001 | 991723002 | 991728 | 991740001 | 991740002 | 991770001 | | | |

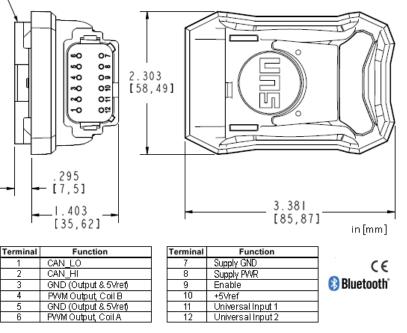




sunhydraulics.com/model/XMD-02



- INSTALLATION BRACKET INCLUDED



The XMD module is an electro-hydraulic driver for use with mobile and industrial hydraulic equipment. It is configurable using Sun's free CANpoint XMD Configuration Software and a CAN-to-USB interface cable connected to a computer or via the XMD Mobile app. The XMD driver can control a variety of electrically operated hydraulic actuators used in applications for on- and off-highway equipment including but not limited to agriculture, forestry, construction, marine, earth moving, and material handling. Tuned for optimal flow and pressure control using Sun valves, the XMD driver delivers repeatable and reliable results for your demanding applications.

TECHNICAL DATA

| Supply Voltage | 9-32 VDC |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Number of Outputs | 2 |
| Output Current | 0 to 3000 mA |
| Dither Frequency | 33-500 Hz |
| Number of Universal Inputs | 2 |
| Input Range | 0-5V, 0-10V, 4-20 mA, digital, pulse (60 Hz-10 kHz), PWM (60 Hz-10 kHz), resistive (0-100 k $\Omega)$ |
| Reference Voltage | 5 Vdc, ±0.1 Vdc (250 mA max) |
| Operating Temperature Range | -40 - 85 °C |
| Vibration | 33.3 Hz 6.8g Peak (Spec: S-367 Section 11.0) |
| Shock | 49g Peak (Spec: S-367 Section 12.0) |
| U.S. Patent # | Pending |

NOTES

Installation bracket and mounting hardware are included. Coil clips for high and low-power FLeX Series coils are sold separately.

| 991711300 | 991711600 | 991712300 | 991712600 | 991713030 | 991713060 | 991720300 | 991720600 | 991721300 | 991721600 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 991722 | 991723001 | 991723002 | 991728 | 991740001 | 991740002 | 991770001 | | | |

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