

miT-**UniD**<sup>®</sup>-cns **Solenoid Valve & Electric Actuator**  
ISO 9001

IP67



UL 429 ISO 9001

Serial No.: 216806



TN053

T-ONE-S (MFG) TRADING INC.

Cat. Sep06

**CAST BRONZE SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V, DC24V  
 FOR STEAM, HEAVY OIL  
 SIZE: 1/2"~2" PRESS: 0.5-10 KGF/CM<sup>2</sup>  
 TEMP: -5~185°C

**MODEL: US**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V, DC24V  
 FOR STEAM, WATER, AIR, LIGHT OIL  
 • 1/8"~1/4" (0-7K) 3/8" (0-10K)  
 • 1/2"~2" (0.5~10 KGF/CM<sup>2</sup>)  
 TEMP: -5~185°C

**MODEL: SUS**



**FLUID AUTOMATIC CONTROL OF SOLENOID VALVE**

- **FLUID:**  
**STEAM, WATER, AIR, OIL, GAS, VACUUM, ACID, ETC.**
- **MATERIAL:**  
**FORGE BRASS, CAST BRONZE, CAST IRON (FC20), CF8M, PTFE, PVC.**
- **STANDARD VOLTAGE:**  
**110V AC/220V AC/24V DC**
- **OPTION: DIN. COIL**

**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V. DC24V  
 FOR WATER, AIR, LIGHT OIL USE.  
 • 3/8"~1" (BRASS) 0-7K AIR  
 • 1-1/4"~2"(BRONZE) 0-5K WATER  
 TEMP: -5~80°C

**MODEL: UW**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT,  
 NPT, BSP. AC110V/220V. DC24V  
 FOR WATER, AIR, LIGHT OIL USE.  
 • 1/2"~1" (CF8M) 0-7K AIR  
 • 1-1/4"~2" (CF8M) 0-5K WATER  
 TEMP: -5~80°C

**MODEL: SUW**



**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT,  
 NPT, BSP. AC110V/220V. DC24V FOR  
 VACUUM, GAS USE.  
 • 3/8"~1" (FORGED BRASS)  
 • 1-1/4"~2" (BRONZE)  
 TEMP: -5~80°C.  
**MODEL: UG (GAS) 0-7 KGF/CM<sup>2</sup>**  
**MODEL: UV (VACUUM) 0-10<sup>-3</sup>**



**PVC 2-WAY SOLENOID VALVE  
 CORROSION RESISTANCE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V. DC24V  
 FOR WATER, AIR USE. SIZE: 1/4"~1"  
 PRESS: 0-1 KGF/CM<sup>2</sup>  
 TEMP: -5~80°C

**MODEL: UDC**



**PTFE 2-WAY SOLENOID VALVE  
 CORROSION RESISTANCE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V. DC24V  
 FOR WATER, AIR USE. TEMP: -5~80°C  
 • 1/4"~1/2" (0-1 KGF/CM<sup>2</sup> AIR)  
 • 3/4"~1" (0-0.5 KGF/CM<sup>2</sup> AIR)

**MODEL: UDC-TF**



**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END  
 BSPT, NPT, BSP. AC110V/220V. DC24V  
 FOR WATER, AIR, VACUUM USE.  
 SIZE: 1/8"~1/4" (0-7K AIR),  
 3/8" (0-10K AIR), 1/2" (0-3K AIR)  
 TEMP: -5~80°C

**MODEL: UD**



**CAST BRONZE SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR STEAM, AIR, WATER, HEAVY OIL USE.   
 SIZE: 1/2"~2" PRESS: 0.5-15 KGF/CM<sup>2</sup>   
 TEMP: -5~185°C

**MODEL: USF (CONN.)**



**FC20 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR STEAM, AIR, WATER USE.   
 SIZE: 1-1/4"~4" PRESS: 1-10 KGF/CM<sup>2</sup>   
 TEMP: -5~185°C

**MODEL: US-F (FC)**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR STEAM, AIR, WATER, LIGHT OIL USE.   
 SIZE: 1/2"~2" PRESS: 0.5-10 KGF/CM<sup>2</sup>   
 TEMP: -5~185°C

**MODEL: SUSF (CONN.)**



**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR WATER, AIR, LIGHT OIL USE.   
 SIZE: 3/8"~2" P. 0-7K (AIR) 0-5K (WATER)   
 TEMP: -5~80°C

**FORGE BRASS / CAST BRONZE   
 MODEL: UWF (CONN.)**



**FC20 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR WATER, AIR, LIGHT OIL USE.   
 SIZE: 1-1/4"~4" (FC20)   
 PRESS: 0.5-8 KGF/CM<sup>2</sup> TEMP: -5~80°C

**MODEL: UW-F (FC)**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY CLOSED. FLANGED JIS10K, ANSI 150LBS, DIN PN16. AC110V/220V, DC24V. FOR WATER, AIR, LIGHT OIL USE.   
 SIZE: 1/2"~2" P: 0-7K (AIR) 0-5K (WATER)   
 TEMP: -5~80°C

**MODEL: SUWF (CONN.)**



**BRASS 3-WAY SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR WATER, AIR, VACUUM USE.   
 SIZE: 1/4"~3/8" (0-10K)   
 TEMP: -5~80°C

**FORGE BRASS   
 MODEL: UA**



**CAST BRONZE SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR WATER, AIR USE.   
 SIZE: 1/2"~2"   
 PRESS: 0.5-10 KGF/CM<sup>2</sup>   
 TEMP: -5~80°C.

**MODEL: UAW**



**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR WATER, AIR, VACUUM USE.   
 SIZE: 1/4"~3/8" (0-20 KGF/CM<sup>2</sup>)   
 TEMP: -5~130°C

**MODEL: UDH**



**CAST BRONZE SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR STEAM, WATER, AIR, LIGHT OIL. SIZE: 1/2"~1" PRESS: 0.5-10 KGF/CM<sup>2</sup> TEMP: -5~185°C

**MODEL: UPS**



**FORGE BRASS SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR AIR, WATER, HEAVY OIL USE. SIZE: 1/4"~1/2" PRESS: 0.5-15 KGF/CM<sup>2</sup> TEMP: -5~80°C

**MODEL: UAO**



**CAST BRONZE SOLENOID VALVE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR AIR, WATER, OIL USE. SIZE: 1.1/4"~2" PRESS: 0.5-8 KGF/CM<sup>2</sup> TEMP: -5~80°C

**NASS DIN COIL (IP65)  
MODEL: NW**



**FORGE BRASS SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR WATER, AIR, GAS, VACUUM. • 3/8"~1" (BRASS) 0-7K AIR • 1-1/4"~2"(BRONZE) 0-5K WATER TEMP: -5~80°C

**MODEL: UW-NO**



**FORGE BRASS SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR GAS USE. • 3/8"~1" (FORGED BRASS) • 1-1/4"~2" (BRONZE) PRESS: 0-7 KGF/CM<sup>2</sup> TEMP: -5~80°C.

**MODEL: UG-NO (GAS)**



**FORGE BRASS SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR AIR, VACUUM, GAS, WATER USE. SIZE: 1/8"~3/8" PRESS: 0-7K GAS • UD-NO 1/8"~3/8" TEMP: -5~80°C • UDH-NO 1/4" TEMP: -5~130°C

**MODEL: UD-NO / UDH-NO**



**FORGE BRASS SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. FOR STEAM, WATER, AIR, LIGHT OIL. SIZE: 1/2"~1" PRESS: 0.5-10 KGF/CM<sup>2</sup> TEMP: -5~130°C

**MODEL: UPS-NO**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. DIRECT-DRIVE CONNCTED. FOR WATER, AIR, GAS, VACUUM. SIZE: 1/8"~1/4" (0-7K) 3/8" (0-10K) TEMP: -5~130°C

**MODEL: SUS-NO (SMALL SIZE)**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V. MULTIPLEX-DRIVE, PISTON GUIDE. FOR STEAM, WATER, AIR, LIGHT OIL. SIZE: 1/2"~1-1/2" (0.5-10K) 2" (1-8K) TEMP: -5~130°C

**MODEL: SUS-NO**



**FC20 2-WAY SOLENOID VALVE**

NORMALLY OPENED. FLANGED JIS10K, ANSI 150LBS, DIN PN16.  
AC110V/220V, DC24V.  
FOR STEAM, AIR, WATER USE.  
SIZE: 1-1/4"~4" PRESS: 1-8 KGF/CM<sup>2</sup>  
TEMP: -5~130°C

**MODEL: US-F-NO**



**FC20 2-WAY SOLENOID VALVE**

NORMALLY OPENED. FLANGED JIS10K, ANSI 150LBS, DIN PN16.  
AC110V/220V, DC24V.  
FOR WATER, AIR, LIGHT OIL USE.  
SIZE: 1-1/4"~4" PRESS: 0.5-8 KGF/CM<sup>2</sup>  
TEMP: -5~80°C

**MODEL: UW-F-NO**



**CF8 2-WAY SOLENOID VALVE**

NORMALLY OPENED. SCREWED END BSPT, NPT, BSP.  
AC110V/220V, DC24V.  
FOR WATER, AIR, GAS, VACUUM.  
SIZE: 1/2"~2" PRESS: 0-5K (WATER), 0-7K (AIR). TEMP: -5~80°C

**MODEL: SUW-NO**



**FORGE BRASS SOLENOID VALVE EXPLOSION PROOF TYPE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP.  
AC110V/220V, DC24V.  
FOR AIR, WATER. SIZE: 1/2"~1" P: 0.5-10 (WATER/AIR) TEMP: -5~70°C

**MODEL: PKS**



**CF8 2-WAY SOLENOID VALVE EXPLOSION PROOF TYPE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP.  
AC110V/220V, DC24V.  
FOR AIR, WATER. SIZE: 1/2"~1" P: 0.5-10 (WATER/AIR) TEMP: -5~70°C

**MODEL: SKS**



**SOLENOID VALVE OF EXPLOSION PROOF TYPE**  
**PKS SKS PKW SKW**

- LEVEL: II2 G Ex e mb IIC T4
- POWER: 110VAC, 220VAC, 24VDC.
- COILS APPROVED ACC TO EN50020, DIN VDE 0170/0171
- FLUID: STEAM, WATER, AIR, OIL, GAS, VACUUM.
- IP67 WATERPROOF.

**FORGE BRASS SOLENOID VALVE EXPLOSION PROOF TYPE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V.  
FOR WATER, AIR, GAS, VACUUM.  
SIZE: 3/8"~1" P: 0-5K(WATER GAS) 0-7K (AIR) TEMP: -5~70°C.  
1.1/4"~2" P: 0.5-8K (WATER AIR)

**MODEL: PKW**



**CF8 2-WAY SOLENOID VALVE EXPLOSION PROOF TYPE**

NORMALLY CLOSED. SCREWED END BSPT, NPT, BSP. AC110V/220V, DC24V.  
FOR WATER, AIR, GAS, VACUUM.  
SIZE: 3/8"~1" P: 0-7K (AIR) 0-5K (WATER GAS) TEMP: -5~70°C

**MODEL: SKW**



**ELECTRIC ACTUATOR**

- UM-1 ~ UM-6 PROVIDE DIRECT MOUNTING ON ISO 5211 VALVE.
- STANDARD VOLTAGE: 110V AC ~ 120V AC, 200V AC ~ 250V AC, 24V DC OR OTHER SPECIAL VOLTAGE
- APPROVALS: ISO 9001, CSA, IP67, CE, UL429.
- IP67 WATERPROOF
- DUSTPROOF ENCLOSURE

APPLY FOR: BALL VALVE 2-PC, 3-PC, 3-WAY, SCREWED, FLANGED END.  
PVC VALVE, GATE VALVE, BUTTERFLY VALVE

**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- SCR D 2-PC/3-PC BALL VALVE: 1/4"~1/2"
- 3-WAY SCR D VALVE: 1/4"~3/8"

MODEL: UMS



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- SCR D 2PC/3PC BALL VALVE: 1/4"~1-1/2"
- 3-WAY SCR D VALVE: 1/2"~1.1/2" (1-1/2":15W)

MODEL: UM-1



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- SCR D 2PC/3PC BALL VALVE: 1"~3"
- BUTTERFLY VALVE: 2"~4"
- 3-WAY SCR D VALVE: 1.1/4"~2"

MODEL: R5 ~ R15



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- SCR 2PC/3PC BALL VLV: 1-1/4"~3"
- BUTTERFLY VALVE: 2"~5"

MODEL: UM-3



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- SCR 2PC/3PC BALL VALVE: 1-1/4"~3"
- BUTTERFLY VALVE: 2"~5"

MODEL: UM-3-1 (MANUAL WHEEL)



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR (20 SEC)**

- SCR 2PC/3PC BALL VALVE: 2"~4"
- BUTTERFLY VALVE: 4"~8"

MODEL: UM-4-1 (MANUAL WHEEL)



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR (30 SEC)**

- SCR D 3PC BALL VLV: 2"~4"
- BUTTERFLY VALVE: 4"~8"

MODEL: UM-4 (MANUAL WHEEL)



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- BUTTERFLY VALVE: 8"~10"

MODEL: UM-5 (MANUAL WHEEL)



**UM DIRECT MOUNTING SERIES ELECTRIC ACTUATOR**

- BUTTERFLY VALVE: 10"~12"

MODEL: UM-6 (MANUAL WHEEL)



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD 2-PC/3-PC BALL VLV: 1/4"~1/2"
- 3-WAY SCRD VALVE: 1/4"~3/8"
- PVC BALL VALVE: 1/2"

**MODEL: UM-S (23 SEC)**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1/4"~1-1/2"
- FLGD BALL VALVE: 1/2"~1"
- UNION PVC BALL VALVE: 1/2"~1-1/2"
- 3-WAY BALL VALVE: 1/2"~1"

**MODEL: UM-1 (10 SEC)**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1"~2"
- FLGD BALL VALVE: 1.1/4"~2"
- UNION PVC BALL VALVE: 1/2"~2"
- BUTTERFLY VALVE: 2"~3"
- 3-WAY BALL VALVE: 1.1/4"~1-1/2"

**MODEL: UM-2-5 / UM-2-7**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1/4"~1.1/2"
- FLGD BALL VALVE: 1/2"~1"
- UNION PVC BALL VALVE: 1/2"~1.1/2"
- 3-WAY BALL VALVE: 1/2"~1"

**MODEL: R3**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1"~2.1/2"
- FLGD BALL VALVE: 1.1/4"~2.1/2"
- UNION PVC BALL VALVE: 1/2"~3"
- BUTTERFLY VALVE: 2"~4"
- 3-WAY BALL VALVE: 1"~2"

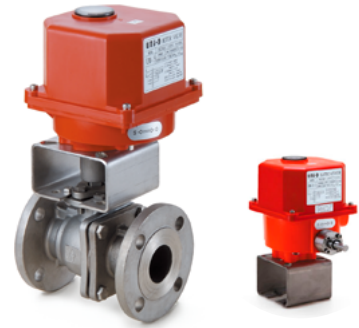
**MODEL: R5 ~ R15**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1.1/4"~3"
- FLGD BALL VALVE: 1.1/4"~3"
- UNION PVC BALL VALVE: 1.1/4"~3"
- BUTTERFLY VALVE: 2"~4"
- 3-WAY BALL VALVE: 1.1/2"~2"

**MODEL: UM-3 (8 SEC)**



**ELECTRIC ACTUATOR (8 SEC)  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 1.1/4"~3"
- FLGD BALL VALVE: 1.1/4"~3"
- UNION PVC BALL VALVE: 1.1/4"~3"
- BUTTERFLY VALVE: 2"~4"
- 3-WAY BALL VALVE: 1.1/2"~2"

**MODEL: UM-3-1 (MANUAL WHEEL)**



**ELECTRIC ACTUATOR (20 SEC)  
UM SERIES WITH MOUNTING KIT**

- SCRD BALL VALVE: 2"~4"
- FLGD BALL VALVE: 1.1/4"~4"
- UNION PVC BALL VALVE: 1.1/4"~4"
- BUTTERFLY VALVE: 4"~8"
- 3-WAY BALL VALVE: 2.1/2"~3"

**MODEL: UM-4 (MANUAL WHEEL)**



**ELECTRIC ACTUATOR (30 SEC)  
UM SERIES WITH MOUNTING KIT**

- FLGD BALL VALVE: 5"
- BUTTERFLY VALVE: 8"~10"
- 3-WAY BALL VALVE: 4"

**MODEL: UM-5 (MANUAL WHEEL)**



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- FLGD BALL VALVE: 6"
- BUTTERFLY VALVE: 10"~12"
- 3-WAY BALL VALVE: 5"

MODEL: UM-6 (MANUAL WHEEL)



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- FLGD BALL VALVE: 6"~10"
- BUTTERFLY VALVE: 12"~18"
- 3-WAY BALL VALVE: 5"~8"

(MANUAL WHEEL)

MODEL: UM-8 / UM-10 / UM-11



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- FLGD BALL VALVE: 12"
- BUTTERFLY VALVE: 20"~24"
- 3-WAY BALL VALVE: 8"

MODEL: UM-12 (MANUAL WHEEL)



**UM-R SERIES  
ELECTRIC ACTUATOR**

- Frequent-Working Type (FW)
- Failsafe Type (LS)
- Frequent-Working Failsafe Type (FWLS)

MODEL: UM-R-FW

MODEL: UM-R-LS

MODEL: UM-R-FWLS



**BRUSHLESS DC SERIES  
ELECTRIC ACTUATOR**

- Equipped with circuit protection device to replace the fuse function.
- LED indicator is on the side motor output wiring.

MODEL: BLDC UM-1-X (1S).

MODEL: BLDC UM-1-X (10S)

MODEL: BLDC UM2-7-X (11S)



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- WITH CONTROLLER
- WITH MANUAL WHEEL
- WITH MODULATING (UM-D)

MODEL: UM-4 WITH CONTROLLER



**ELECTRIC ACTUATOR  
UM SERIES WITH MOUNTING KIT**

- FOR BELLOWS VALVE 3/4"~2.1/2"
- FOR GATE VALVE 1-1/2"~6"
- FOR GLOBE VALVE 1-1/2"~6"
- FOR KNIFE VALVE 2"~6"

MODEL: UM-B



**ELECTRIC ACTUATOR (1 SEC)  
UM SERIES WITH MOUNTING KIT**

- CLOSE TIME: AC 1 SEC / DC 1 SEC.
- OPEN TIME: AC 1 SEC / DC 2 SEC.
- UM-1 FOR 5 SECONDS / AC PROVIDE MODULATING CONTROLLER.

MODEL: UM-1 (STEAM)



**UM DIRECT MOUNTING ELECTRIC  
ACTUATOR WITH MODULATING**

- FOR UM-1 ~ UM-12
- PROVIDE PROPORTION CONTROL
- UM-1/UM-2 INSTALL EXTRA BOX.
- UM-3~UM-12 INSTALL INSIDE.
- 4~20MA, 1~5VDC, 2~10VDC

MODEL: UM-D

