

SHILLA

3-WAY TYPE OUTDOOR HYDRANT (SLH-150T / SLH-150TA)

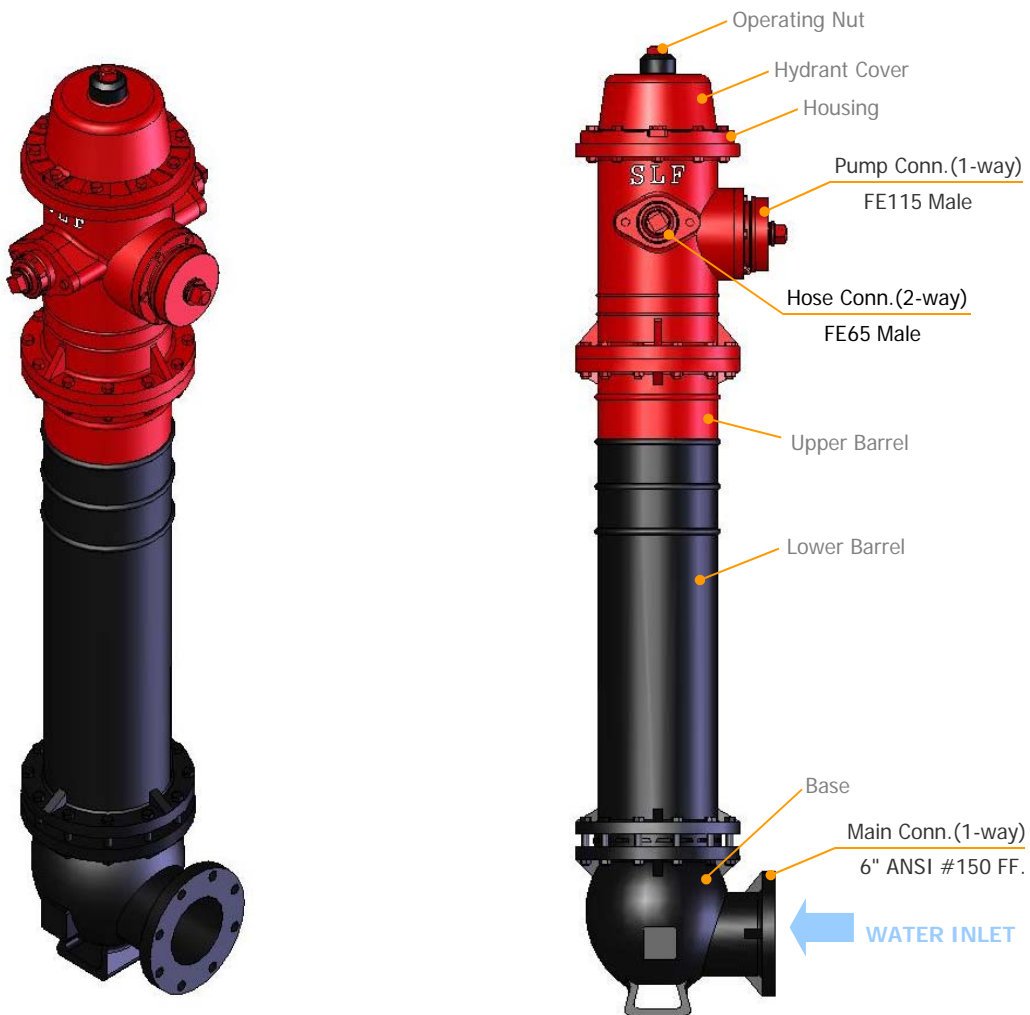
OPERATION AND MAINTENANCE MANUAL



WARNING

Read this manual before use. Operation of this equipment without understanding the manual or receiving proper training can be dangerous and is a misuse of this equipment.

Outdoor Hydrant is usually used at outside of building or plant facilities. SLH-150T series is designed for large amount of water flow and easy replacement of interior parts without digging up or and easy replacement of interior parts without digging up or disconnection to supply pipe. Pumper connection is available for quick water supply to fire truck.

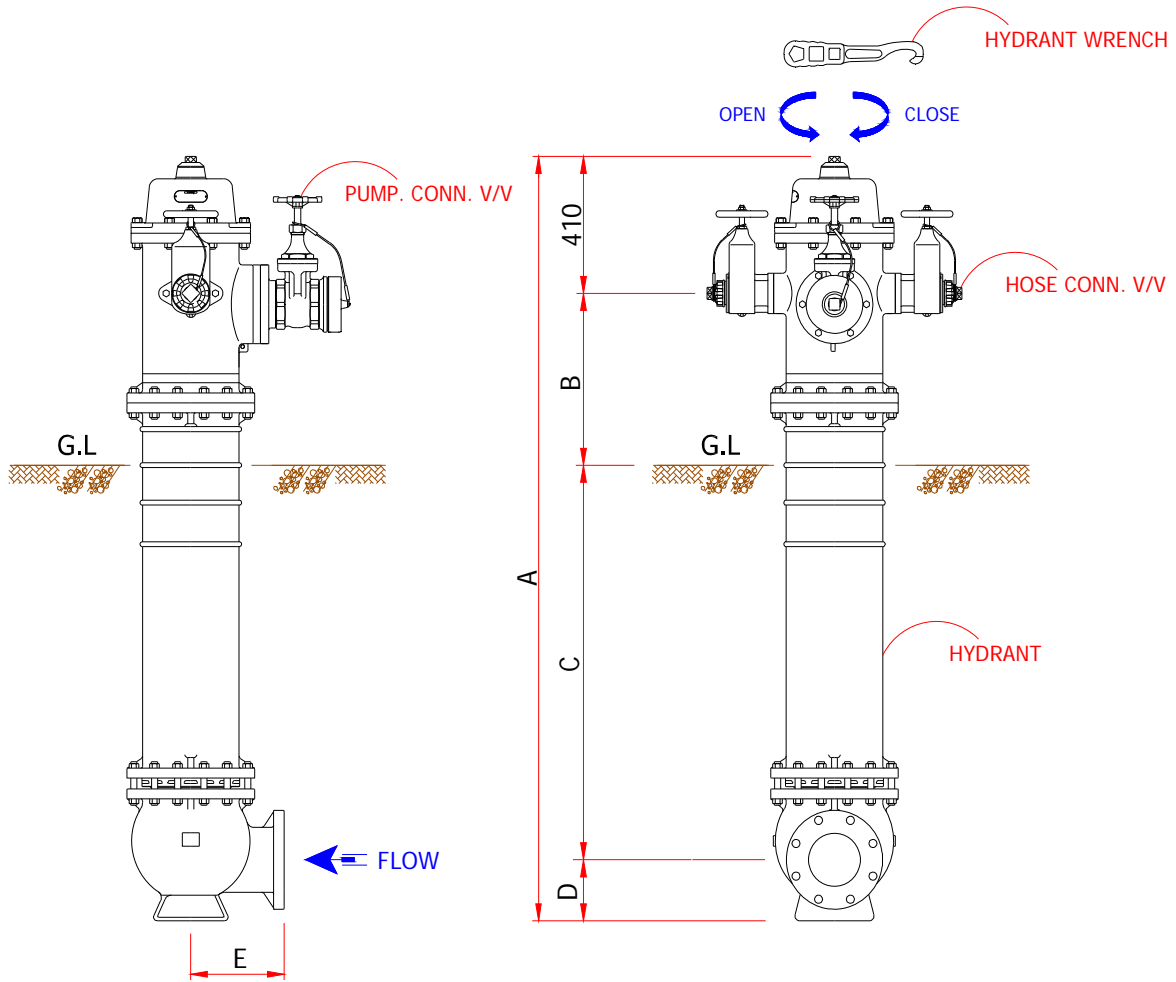


SLH-150T

Model No.	Main Conn.	Hose Conn.	Pump. Conn.	WEIGHT	PRESSURE
SLH-150T	6" ANSI #150 FF.	FE65 Male (Option: Quick 2-1/2")	FE115 Male	Approx. 430 kg	WORKING: 15kg/cm ² , TEST: 20kg/cm ²
SLH-150TA	6" ANSI #300 FF.				

- Type: Non-Freezing, 3-way Pillar & Dry barrel
- Material: Body - Cast Iron / Conn. - Bronze
- Pressure: Working - 15kg/cm², Test - 20kg/cm²
- Paint: Above - Red(or Yellow), Under - Black
- Approval: KOFEIC Approved
- Hose conn. valve type: Gate valve, Globe valve, Ball valve

1. DIMENSION



Model No.	Type	Dimension (Unit: mm)					Remark
		A	B	C	D	E	
SLH-150T SLH-150TA	A-Type	1962	480	890	182	264	
	B-Type	2192	480	1120	182	264	
	C-Type	2492	480	1420	182	264	

2. OPERATION FLOW

- 1) Open the cap from hose connection valve and connect the fire hose from the hose cabinet.
(Connect the fire hose tightly by wrench until the rubber packing in the nut is pressed)
- 2) Connect the nozzle to fire hose and turn the nozzle to fire.
- 3) Open the disc of fire hydrant by rotating operating nut with hydrant wrench (anti-clockwise)
- 4) Slowly open the hose connection valve.
- 5) After fire operation, close hydrant disc by hydrant wrench (clockwise)
(When hydrant disc is closed, water inside hydrant is automatically drained)
- 6) Close hose connection valve and return to stand-by position.
- 7) In case of hose valve attached fire hydrant, close the valve and put protection cap after operation.

3. INSTALLATION

- 1) Fire Hydrant should be buried enough to prevent freezing during cold weather.
- 2) Gravel and sand should be provide around drain hose for complete drain.
- 3) To avoid damage on the seat, dirty material should be completely removed during piping work.
- 4) Do not put excessive force during test operation. Check dirty material and leakage.

4. NOTIFICATION

These equipment should be used only for fire fighting purpose. Other than fire fighting use may cause unexpected accident.



WARNING

Do not dis-assemble, repair or modify. Dis-assembling, repairing or modifying without instruction from our customer service may result in damage or injury to the property or operator.



WARNING

Do not strike on the products.
Any damage on the product by outer force may break-down the parts and cause serious injury to the operator.



CAUTION

Connection parts should be connected tightly by wrench.
Separation of the parts may cause injury to the operator.



CAUTION

In case of hose valve attached fire hydrant, the hose valve should be closed after operation and protection cap is put. If hydrant disc is opened when the valve is not closed, it may cause injury by sudden water out flow.

5. MAINTENANCE

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- 1) **After Operation** : Check hose valve is closed and protection cap is put.
Check the damage of the thread on the connection parts and rotation of the valve.
- 2) **Periodic Check** : Rotation of the handle and nut should be regularly checked at least once a month.

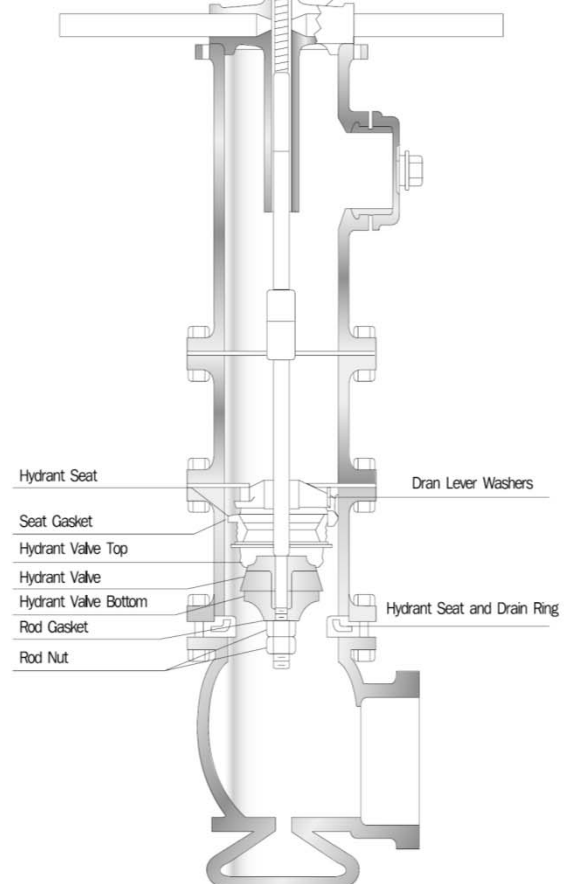
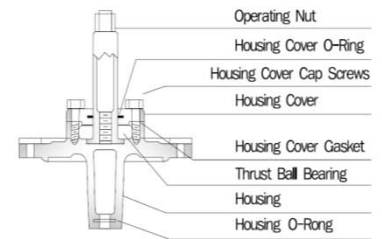
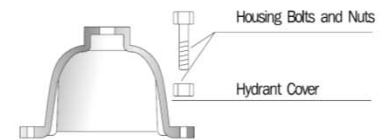
6. TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Leakage between Hydrant Cover and Housing	1) Damage of Cover O-Ring 2) Damage on Housing O-Ring 3) Damage on Housing Cover Gasket 4) Damage of Rod Sleeve	1) Replace Cover O-Ring 2) Replace Housing O-Ring 3) Replace Housing Cover Gasket or screw Bolt & Nut of Housing Cover 4) Replace Rod Sleeve
Operating Nut's Ticking-Over	1) Abrasion of square nut in the Operating Nut or Hydrant Rod 2) Damage on Rod Coupling Pin or Rod Coupling	1) Replace the square nut 2) Replace the Pin or Rod Coupling
Water from the ground or Leakage on the Hose Connection Cap	1) Abrasion of Valve Disc. 2) Dirty Material 3) Abrasion of Drain Lever Washer 4) Incomplete close of Valve Seat	1) Replace Valve Disc. 2) Remove Dirty Material 3) Replace Drain Lever Washer 4) Close Valve Seat

SYMPTOM	POSSIBLE CAUSE	REMEDY
Leakage on the Nut	1) Damage on Packing 2) Incomplete connection	1) Replace Packing 2) Connect tightly with wrench
No Rotation of Rotating Parts	1) No use for a long period 2) Clogged by dirty material 3) Deformation by impact	1) Rotate the parts several times 2) Remove dirty material 3) Contact Customer Service
Abnormal operation of Hydrant Rod	1) Damage of Drain Lever Separation Pin 2) Damage on Hydrant Seat Leg 3) Drain Seat Ring is chewed by Valve Disc.	1) Replace Drain Lever Separation Pin 2) Replace Hydrant Seat Leg 3) Dis-assemble Hydrant Seat and reassemble.
Leakage between Hose connection and the Body	1) Damage of Hose Connection O-Ring	1) Replace Hose Connection O-Ring

7. DISASSEMBLY PROCEDURE OF HYDRANT

- 1) Shut-off water flow from the Block Valve.
- 2) Disassemble Hydrant Cover.
- 3) Disassemble Hose Connector Cap with hydrant wrench and rotate the Operating Nut to anti-clockwise.
- 4) Disassemble Bolt & Nut (which connects Housing and Hydrant Cover) with 24mm spanner by rotating anti-clockwise.
- 5) Disassemble Housing Cover Bolt with 19mm spanner and take out Housing Cover.
- 6) Disassemble Thrust Ball Bearing from Operating Nut by rotating Operating Nut on Hydrant Rod with Hydrant Wrench (anti-clockwise).
- 7) Disassemble Housing from Bolt & Nut by 24mm spanner and take out Housing.
- 8) Disassemble Upper Barrel with 24mm spanner.
- 9) Rotating the square part of the Hydrant Rod slowly with Hydrant Seat Wrench (anti-clockwise) and take out Hydrant Seat Block from Drain Seat Ring.



NOTIFICATION

- 1) Disassembled parts should be put on the clean underlay.
- 2) Two person should disassemble together.
- 3) Put enough lubricant when re-assemble the parts.
- 4) Bolt & Nut should be completely connected to prevent leakage.



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