

USER MANUAL

MANUAL VER. 2020.10

SNV50 Series Integral Bonnet Needle Valves 사용 설명서



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⚠ 주의

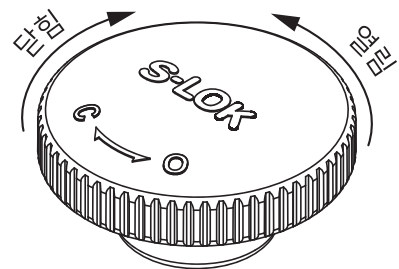
1. 밸브와 배관의 흐름 방향이 동일한지 확인 합니다.
2. 밸브 작동을 핸들 외 다른 것으로(스패너, 파이프 렌치 등) 조작해서는 안됩니다.

알림

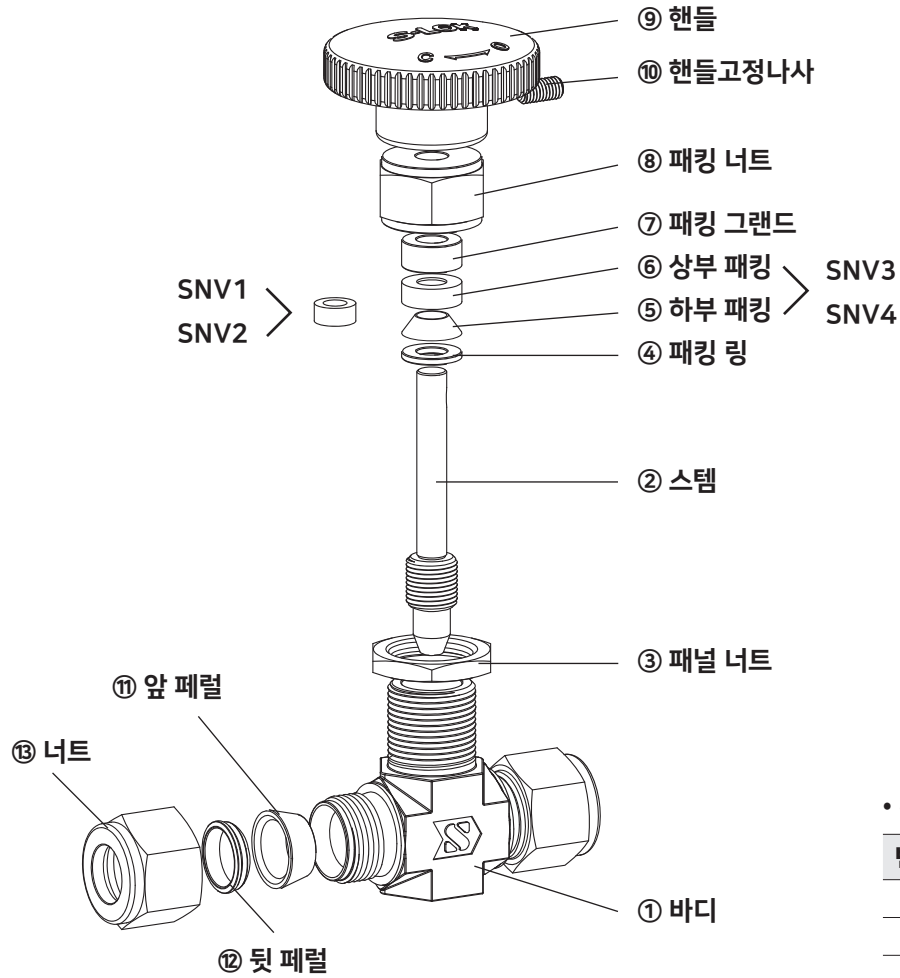
- » 사용 환경에 따라 스템 누설이 발생될 수도 있으니 누설 시에는 누설 방지를 위해 본 사용 설명서의 패킹 조정에 따라 패킹 너트를 조정합니다.
- » 패킹 조정은 반드시 시스템 압력을 모두 제거한 후 진행해야 합니다.
- » 스템 누설이 확인한 상황에서 패킹 조정이 더 이상 가능하지 않을때는 본 사용 설명서의 패킹 교체에 따라 새 패킹으로 교체 합니다.

밸브 개폐

- 밸브를 열고자 할 때
핸들을 반시계 방향으로 돌립니다.
- 밸브를 닫고자 할 때
핸들을 시계 방향으로 돌립니다.
과도한 힘을 가하면 시트와 스템 팁,
특히 소프트 시트가 손상될 수 있으니 주의 바랍니다.



밸브 구성



육각렌치

단위: mm

	SNV1	SNV2	SNV3	SNV4
⑩ 핸들고정나사	2.5	2.5	2.5	3

스패너

단위: mm(in.)

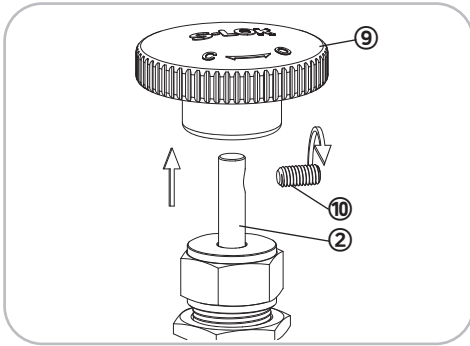
	SNV1	SNV2	SNV3	SNV4
③ 패널 너트	17.4 (11/16)	17.4 (11/16)	25.4 (1)	31.8
⑧ 패킹 너트	15.8 (5/8)	15.8 (5/8)	22.2 (7/8)	30.0

토크

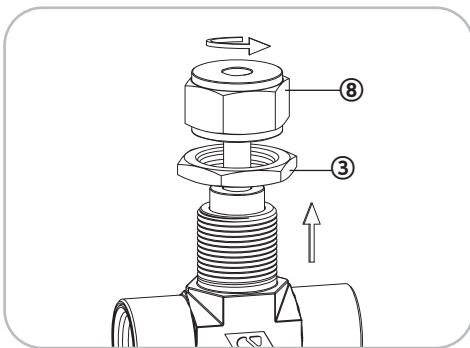
단위: kgf·cm(N·m)

	SNV1	SNV2	SNV3	SNV4
⑧ 패킹 너트	80 (7.8)	80 (7.8)	130 (12.7)	300 (29.4)

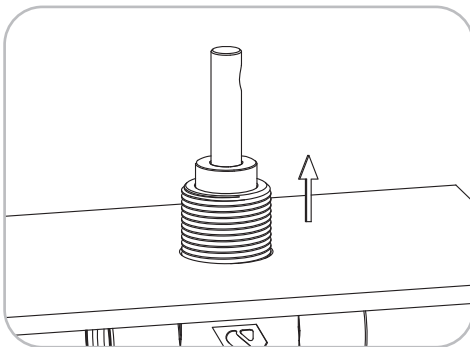
패널 설치



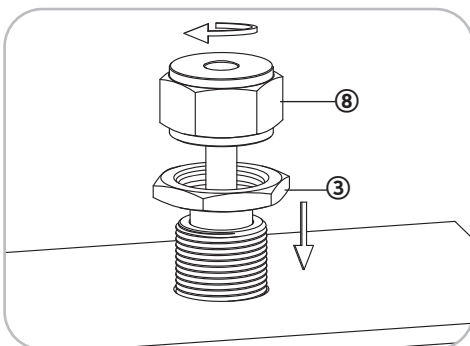
1. ⑩ 핸들고정나사를 풀어 ②스텝에서 ⑨핸들을 분리합니다.



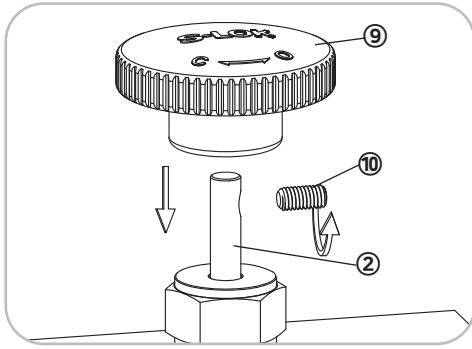
2. ⑧패킹 너트를 풀고, ③패널 너트를 분리합니다.



3. 패널에 밸브를 삽입합니다.

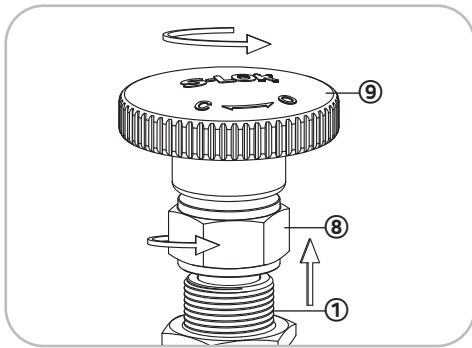


4. ③패널 너트를 단단히 조여주고, 토크표에 따라 ⑧패킹 너트를 조입니다.

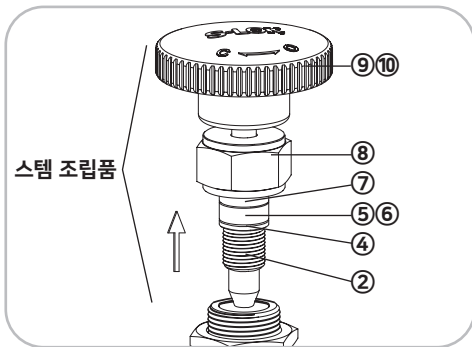


5. ⑨핸들을 ②스템에 넣고, ⑩핸들고정나사를 단단히 조입니다.

패킹 교체



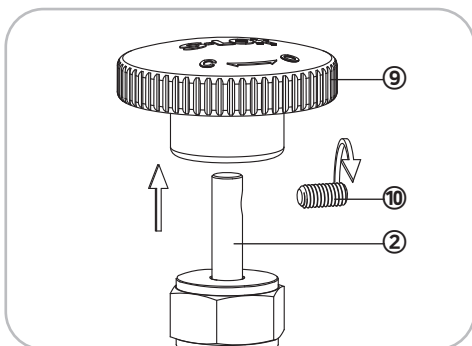
1. ⑨핸들을 돌려 최대한 열고, ⑧패킹 너트를 풀어 ①바디에서 분리합니다.



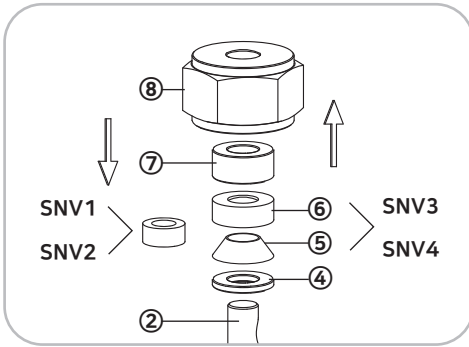
2. 스템 조립품을 ①바디에서 분리합니다.

※스템 조립품

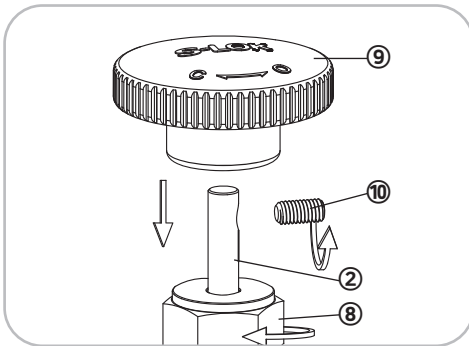
②스템, ④패킹 링, ⑤하부 패킹, ⑥상부 패킹, ⑦패킹 그랜드, ⑧패킹 너트,
⑨핸들, ⑩핸들 고정 나사



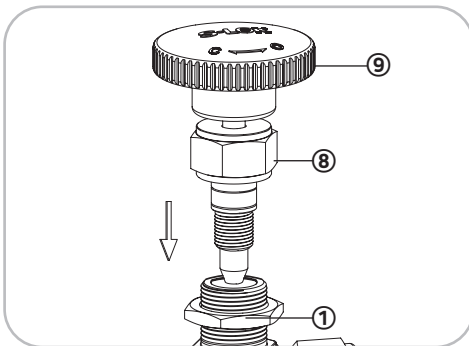
3. ⑩핸들고정나사를 풀어 ②스템에서 ⑨핸들을 분리합니다.



4. ②스템에서 ⑧패킹 너트, ⑦패킹 그랜드, ⑥상부 패킹, ⑤하부 패킹, ④패킹 링을 분리합니다.
 ④패킹 링, ⑤하부 패킹, ⑥상부 패킹을 새 것으로 교체합니다.
 ④패킹 링, ⑤하부 패킹, ⑥상부 패킹, ⑦패킹 그랜드, ⑧패킹 너트를 ②스템에 다시 조립합니다.

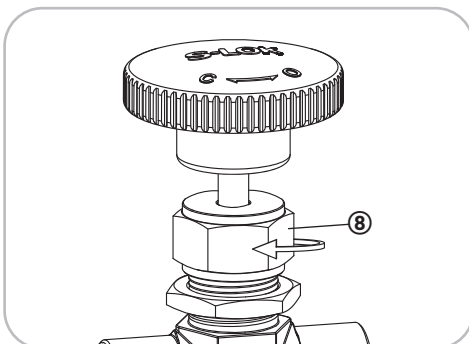


5. ⑨핸들을 ②스템에 넣고, ⑩핸들고정나사를 단단히 조입니다



6. 스템 조립품을 ①바디에 조립하고, ⑨핸들을 시계방향으로 돌려 밸브를 닫습니다.
 ⑨핸들을 반시계 방향으로 한바퀴 돌립니다.
 토크표에 따라 ⑧패킹 너트를 조입니다.

패킹 조정



- ⑧패킹 너트를 1/8 바퀴씩 돌려 완전 밀폐가 될 때까지 조입니다.

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SNV50 Series Integral Bonnet Needle Valves Maintenance Instruction

Caution

Check the valve direction and the flow in the tube/pipe are in equal direction.

During the valve operation, operator shall not use other tools, such as spanner, pipe wrench, or etc.

Notice

- » Depending on the working environment, there may be a leakage, and when there is any leakage, follow the directions below for prevention of further leakage by adjusting the packing nut as instructed below.
- » Packing adjustment must be performed after relieving all of the pressure in the system.
- » If there is leakage via stem and packing adjustment is not being effective, change the packing as instructed in this manual.

Open & Close

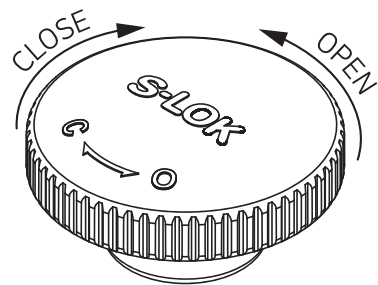
- Opening

Turn the handle counter-clock wise.

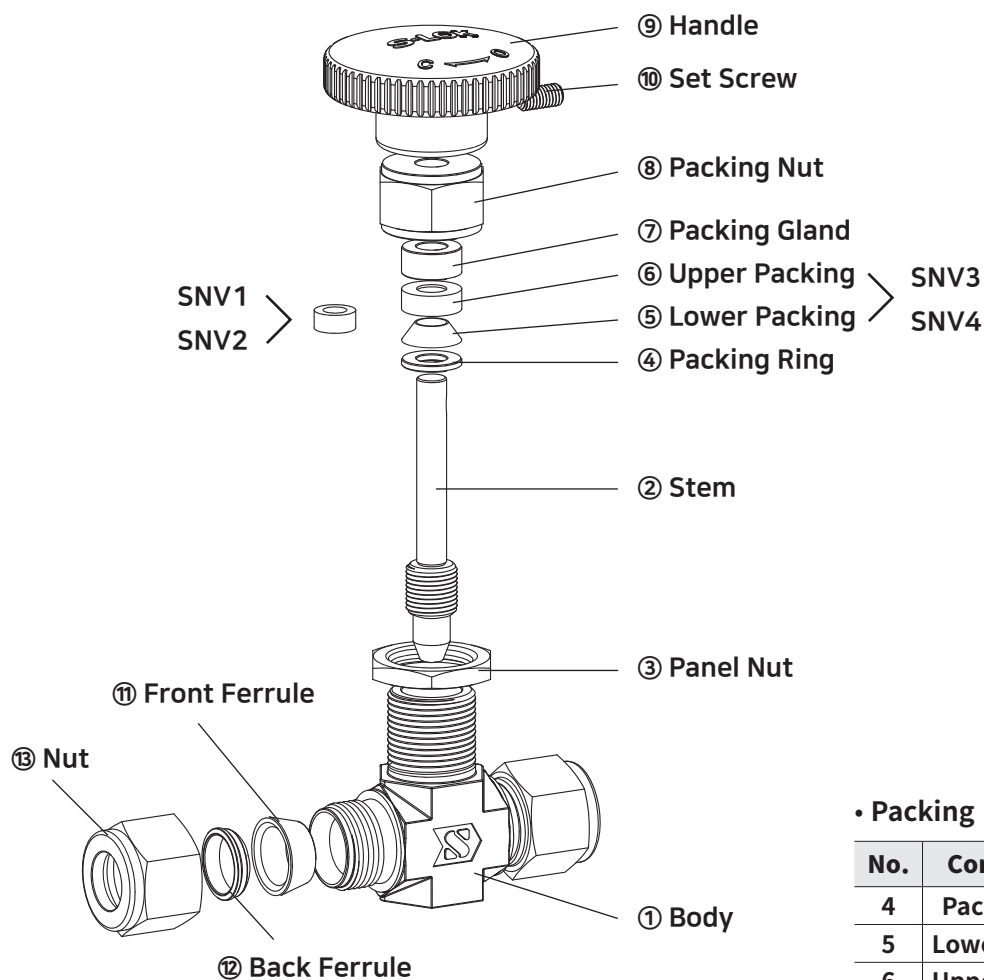
- Closing

Turn the handle clock wise.

Note: When overturning the handle, it may cause damaging the seat as well as the stem tip. Especially, it damages soft seat easily.



Valve Composition



• Packing Kit

No.	Component
4	Packing Ring
5	Lower Packing
6	Upper Packing

Hex. Wrench

Unit : mm

	SNV1	SNV2	SNV3	SNV4
(10) Set Screw	2.5	2.5	2.5	3

Spanner

Unit : mm(in.)

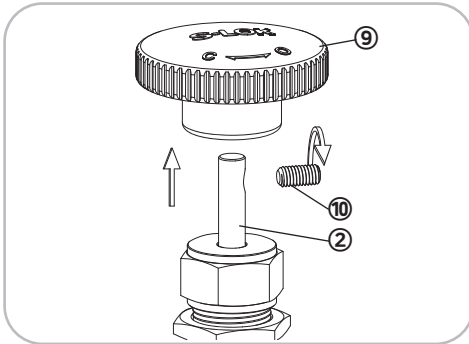
	SNV1	SNV2	SNV3	SNV4
(3) Panel Nut	17.4 (11/16)	17.4 (11/16)	25.4 (1)	31.8
(8) Packing Nut	15.8 (5/8)	15.8 (5/8)	22.2 (7/8)	30.0

Torque

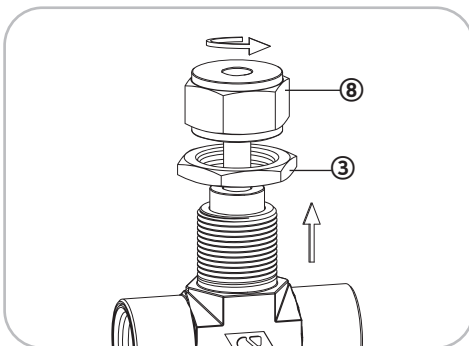
Unit : kgf·cm(N·m)

	SNV1	SNV2	SNV3	SNV4
(8) Packing Nut	80 (7.8)	80 (7.8)	130 (12.7)	300 (29.4)

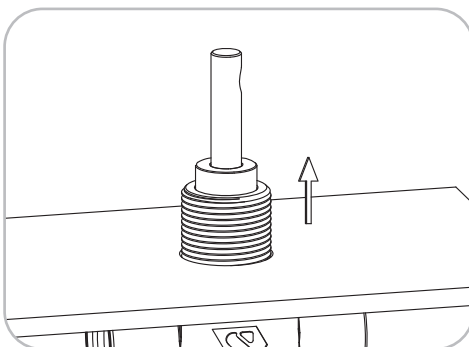
Panel Installation



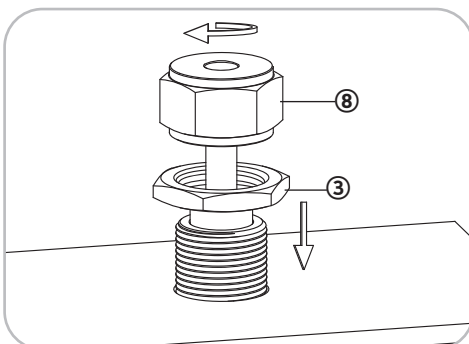
1. Unscrew ⑩Set Screw and disassemble ⑨Handle from ②Stem.



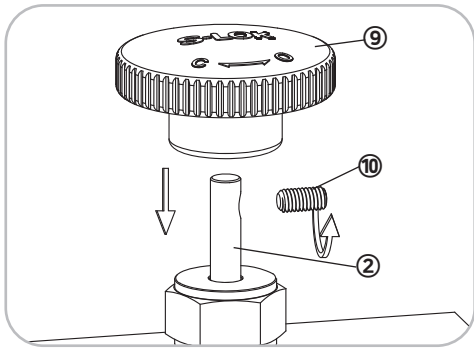
2. Unscrew ⑧Packing Nut and ③Panel Nut.



3. Insert the Valve to the panel hole.

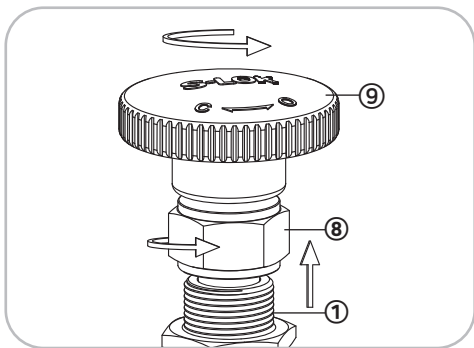


4. Tighten ③Panel Nut and fasten ⑧Packing Nut according to the torque table.

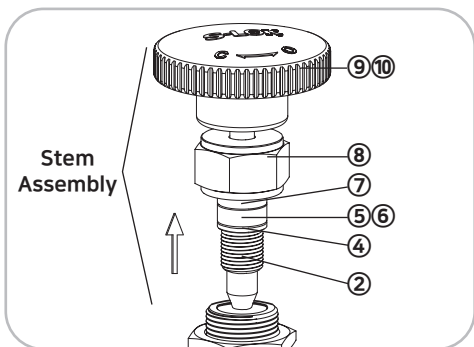


5. Insert ⑨*Handle* to ②*Stem*, and tighten ⑩*Set Screw*.

Packing Replacement



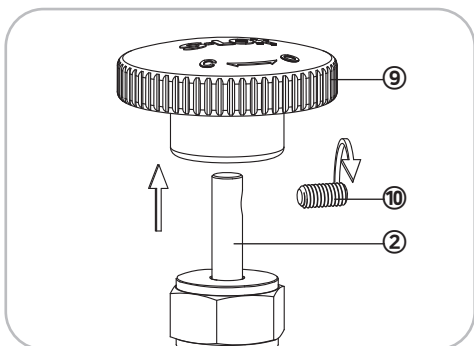
1. Turn ⑨*Handle* to open all the way, and unscrew ⑧*Packing Nut* from ①*Body*.



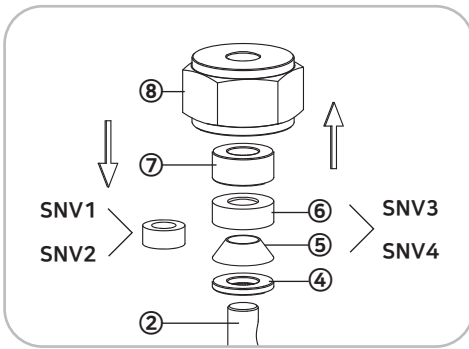
2. Remove the stem assembly from ①*Body*.

※*Stem Assembly*

②*Stem*, ④*Packing Ring*, ⑤*Lower Packing*, ⑥*Upper Packing*,
⑦*Packing Gland*, ⑧*Packing Nut*, ⑨*Handle*, ⑩*Set Screw*



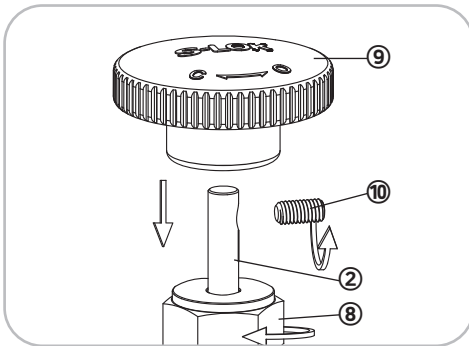
3. Unscrew ⑩*Set Screw* and remove ⑨*Handle* from ②*Stem*.



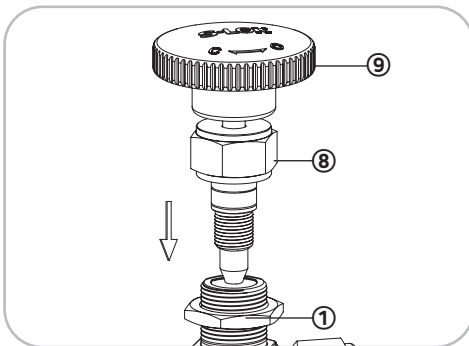
4. Remove ⑧ **Packing Nut**, ⑦ **Packing Gland**, ⑥ **Upper Packing**, ⑤ **Lower Packing** and ④ **Packing Ring** from ② **Stem**.

Replace parts ④ **Packing Ring**, ⑤ **Lower Packing** and ⑥ **Upper Packing** with new ones.

Assemble ④ **Packing Ring**, ⑤ **Lower Packing**, ⑥ **Upper Packing**, ⑦ **Packing Gland** and ⑧ **Packing Nut** to ② **Stem**.



5. Insert ⑨ **Handle** to ② **Stem** and tighten ⑩ **Set Screw**.

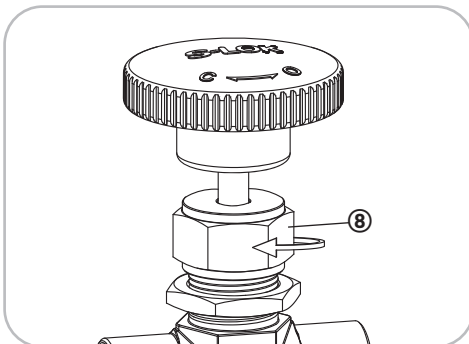


6. Insert the stem assembly to ① **Body** and turn ⑨ **Handle** clockwise to close the valve.

Turn ⑨ **Handle** counter-clockwise one turn.

Fasten ⑧ **Packing Nut** according to the torque table.

Packing Adjustment



Turn the ⑧ **Packing Nut** clockwise in 1/8-turn increments until leak-tight.