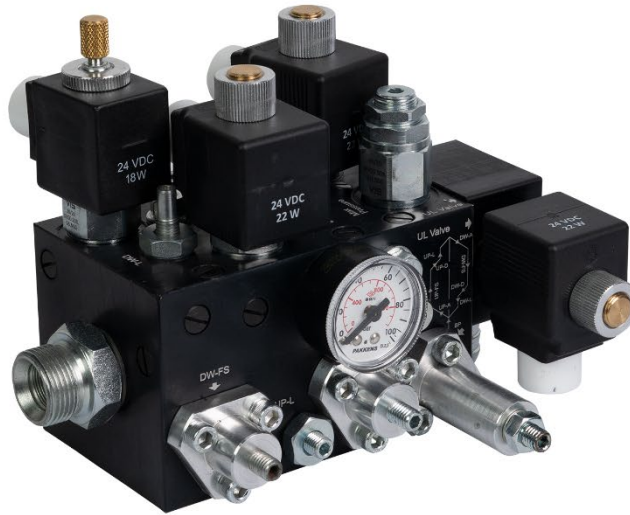
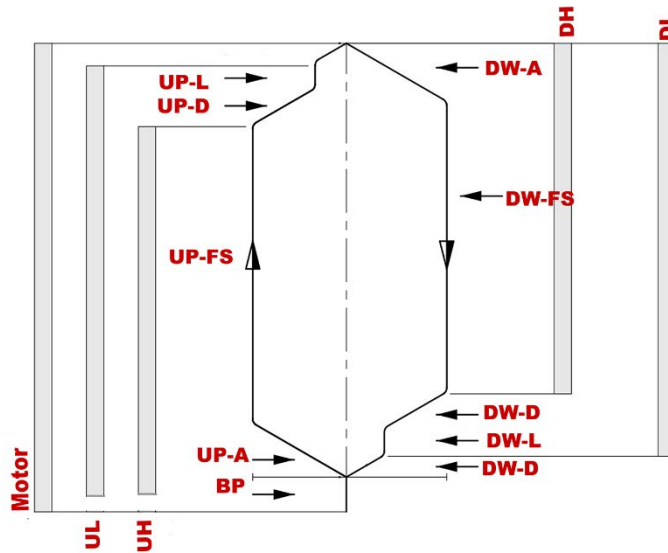


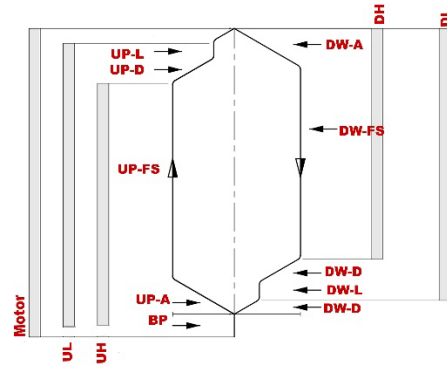
AKİŞ VALVE



Akiş3V4



AKİS 3V4 VALVE ADJUSTMENT GUIDELINE



- | | |
|---|-------------------------------|
| 1. "UL Solenoid" : Up low speed coil | 14. "DW-A": Down acceleration |
| 2. "UH Solenoid": Up full speed coil | 15. "DW-FS": Down full speed |
| 3. "DH Solenoid": Down full speed coil | 16. "DW-D": Down deceleration |
| 4. "DL Solenoid": Down low speed coil | 17. "DW-L": Down low speed |
| 5. Manometer | |
| 6. "Manual Down" | |
| 7. "Relief Valve" (Pressure Relief Valve) | |
| 8. "Slack Rope" | |
| 9. By-Pass valve (BP) | |
| 10. "UP-A" : Up acceleration | |
| 11. "UP-FS" : Up full speed | |
| 12. "UP-D" : Up deceleration | |
| 13. "UP-L" : Up low speed | |

Adjustment Procedure

*For a soft up travel; first, it is necessary to energize the motor and 1 second later, to energize the up-valve coils (UL and UH).

**Before adjusting bypass and pressure relief valves, tighten all acceleration and deceleration screws (UP-A, UP-D, DW-A, DW-D) completely clockwise with Allen Key 3, and then loosen counterclockwise 1,5 turns. This is a good starting point for all acceleration and deceleration adjustments.

A) BY-PASS (BP) ADJUSTMENT

Adjustment	Key
"BY-PASS" (BP)	Allen Key 4 + 13 wrench

1. First, disconnect up low speed (**UL**) coil.
2. Loosen the lock nut with "**13 wrench**".
3. Loosen the by-pass screw counterclockwise with "**Allen Key 4**".
4. Energise motor. (give "up" command)
5. Observe the cabin. (**the cabin shall not move**)
6. Tighten the by-pass screw clockwise with "**Allen Key 4**" until you see the first movement on the cabin.
7. After seeing the first movement on the cabin, loosen the by-pass screw counterclockwise with "**Allen Key 4**" until the cabin stops.
8. Tighten the lock nut with "**13 wrench**".
9. Reconnect up low speed (**UL**) coil.
10. De-energize motor.

B) PRESSURE RELIEF VALVE (BE) ADJUSTMENT

Adjustment	Key
"RELIEF VALVE" (Pressure Relief Valve)	Allen Key 5 + 19 wrench

1. Loosen the lock nut of the pressure relief valve with "**19 wrench**".
2. Loosen the pressure relief valve counterclockwise with "**Allen Key 5**".
3. Close the ball valve.
4. Reset the pressure to "0" by using the manual down. (**Check the value on the manometer, it should be "0"**)
5. Energise motor, up low speed (**UL**) coil and up high speed (**UH**) coil. (give "up" command)
6. Tighten the Relief Valve clockwise with "**Allen Key 5**", observe the manometer, continue until the pressure reaches the set value. (**the set value is 1.4 times the working pressure**)
7. Tighten the lock nut on the relief valve with "**19 wrench**".
8. De-energize motor, up low speed (**UL**) coil and up high speed (**UH**) coil.
9. By using manual down reset the pressure to zero.
10. **To test the setting:**
 - Energise motor, up low speed (**UL**) coil and up high speed (**UH**) coil. (give "up" command)
 - Observe the manometer,
 - If the value on the manometer is the set value you set, your setting is correct.
 - If the value is not exactly your desired value, then make fine-tuning.
11. De-energize motor, up low speed (**UL**) coil and up high speed (**UH**) coil.
12. Open the ball valve.



C) Adjustment UP

1. UP FULL SPEED (UP-FS) ADJUSTMENT

Adjustment	Key
"UP-FS"	Allen Key 4

Do not change this setting!

If you need to make adjustment:

1. Loosen the **UP-FS** screw counterclockwise with "Allen Key 4".
2. Energise motor, up low speed (**UL**) coil and up high speed (**UH**) coil. (give "up" command)
3. Tighten the **UP-FS** clockwise with "Allen Key 4".
4. Observe the cabin. After seeing the first slowdown in the cabin, loosen **UP-FS** counterclockwise 2 turns with "Allen Key 4".
5. De-energize motor, up low speed (**UL**) coil and up high speed (**UH**) coil.

2. UP LOW SPEED (UP-L) ADJUSTMENT

Adjustment	Key
"UP-L"	Allen Key 4

*Up low speed should be around 0,05 m/sec

1. Tighten the **UP-L** screw clockwise completely with "Allen Key 4".
2. Energise motor and up low speed (**UL**) coil
3. Observe the cabin.
4. Loosen the **UP-L** screw slowly counterclockwise with "Allen Key 4".
5. Stop when you reach the desired speed. (Tightening the **UP-L** screw reduces the speed, while loosening increases)

3. UP DECELERATION (UP-D) ADJUSTMENT

Adjustment	Key
"UP-D"	Allen Key 3

Up deceleration should be around 2,5sec

1. Tighten clockwise **UP-D** screw completely,
2. Then loosen the **UP-D** screw 1,5 turns counterclockwise with "**Allen Key 3**"
3. Energise motor, up low speed (**UL**) coil and up high speed (**UH**) coil. (give "up" command)
4. Travel between floors.
4. When the elevator reaches high speed, disconnect up high speed (**UH**) coil.
5. Observe the cabin,
-If deceleration time is too short, tighten clockwise **UP-D** ¼ turns.
-If deceleration time is too long, loosen counterclockwise **UP-D** ¼ turns.
6. Repeat the steps until the desired value is achieved.
7. De-energize motor, up low speed (**UL**) coil and up high speed (**UH**) coil.

4. UP ACCELERATION (UP-A) ADJUSTMENT

Adjustment	Key
"UP-A"	Allen Key 3

*Ideal acceleration time is approximately 2,5 sec.

1. Tighten clockwise UP-A completely with "Allen Key 3",
2. Then loosen the UP-A screw 1,5 turns counterclockwise with "Allen Key 3"
3. Energise motor, up low speed (UL) coil and up high speed (UH) coil. (give "up" command)
4. Observe the cabin acceleration.
-If acceleration time is too short, tighten clockwise UP-A, ¼ turns.
-If acceleration time is too long, loosen counterclockwise UP-A ¼ turns.
5. Repeat the steps until the desired value is achieved.
6. De-energize motor, up low speed (UL) coil and up high speed (UH) coil.

D) Adjustment Down

1. DOWN LOW SPEED (DW-L) ADJUSTMENT

Adjustment	Key
"DW-L"	Allen Key 4

*Down low speed should be around 0,05 m/sec.

1. Tighten clockwise the DW-L screw completely with "Allen Key 4".
2. Energise down low speed (DL) coil.
3. Observe the cabin.
4. Loosen the DW-L screw counterclockwise, slowly.
5. Stop when the desired speed is achieved.
Tightening DW-L screw clockwise reduces the speed while, loosening increases.
5. De-energize up low speed (DL) coil.

2.DOWN UP FULL SPEED (DW-FS) ADJUSTMENT

Adjustment	Key
"DW-FS"	Allen Key 4

*Down high speed and Up high speed should be similar.

1. Tighten the DW-FS screw clockwise completely with "Allen Key 4"
2. Energise down low speed (DL) coil and down high speed (DH) coil. (give "Down" command).
3. Loosening the DW-FS counterclockwise increases the speed, while tightening reduces.
4. Repeat the steps until the desired value is achieved.
5. De-energize down low speed (DL) coil and down high speed (DH) coil.

3. DOWN DECELERATION (DW-D) ADJUSTMENT

Adjustment	Key
"DW-D"	Allen Key 3

*Down deceleration should be around 2,5sec

1. Tighten clockwise **DW-D** completely, with "**Allen Key 3**"
2. Loosen the **DW-D** screw **1,5 turns** counterclockwise with "**Allen Key 3**".
3. Energise down low speed (**DL**) coil and down high speed (**DH**) coil. (normal "down" call)
4. Observe travel between floors.
Observe, transition from high speed to low speed.
-If deceleration time is too short, tighten **DW-D**, clockwise ¼ turns.
-If deceleration time is too long, loosen **DW-D** counterclockwise ¼ turns.
5. Repeat the steps until the desired value is achieved.
6. De-energize, down low speed (**DL**) coil and down high speed (**DH**) coil.

4. DOWN ACCELERATION (DW-A) ADJUSTMENT

Adjustment	Key
"DW-A"	Allen Key 3

*Ideal acceleration time is approximately 2,5 sec.

1. Tighten clockwise **DW-A** completely, with "**Allen Key 3**"
2. Loosen the **DW-A** screw counterclockwise 1,5 turns with "**Allen Key 3**"
3. Energise, down low speed (**DL**) coil and down high speed (**DH**) coil. (give "down" command)
4. Observe the cabin's down acceleration.
- If acceleration time is too short, tighten clockwise **DW-A** ¼ turns.
- If acceleration time is too long, loosen counterclockwise **DW-A** ¼ turns.
5. Repeat the steps until the desired value is achieved.
6. De-energize, down low speed (**DL**) coil and down high speed (**DH**) coil.

E) MANUAL DOWN

Adjustment	Key
"MANUEL DOWN"	

*Manual down: "Pull up the yellow pin on top of the DL coil"

