

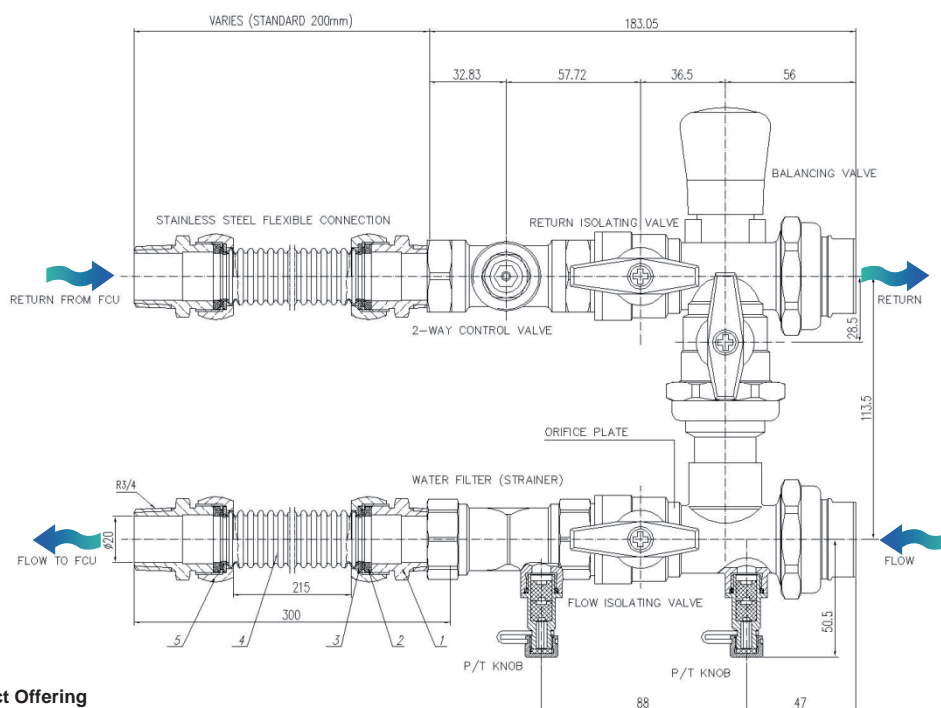


FCU-Link-V02

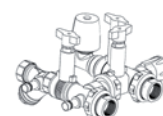
(Fan Coil Unit Link)

Technical Details





ATS FCU-Link is a set of valves, connectors, and unions designed specifically for the application of chilled water or heating water fan coil units



Product Offering

ATS FCU-Link System is a set of valves, connectors and unions designed specifically for the application of chilled water or heating water fan coil units.

It consists of

1. Supply and Return Full Port Isolating Ball valves
2. Regulating Flow Valve (Balancing Valve).
3. Fixed orifice plate measuring station.
4. Two P/T measuring knobs.
5. Hi quality with stainless steel mesh water filter (Strainer)
6. Two way control Valve
7. On/OFF, Proportional, Actuator
8. 7 Unions for easy assembling and dismantling.
9. Two stainless steel flexible connection (300 mm length).
10. Bypass with full port isolating valve for flushing.

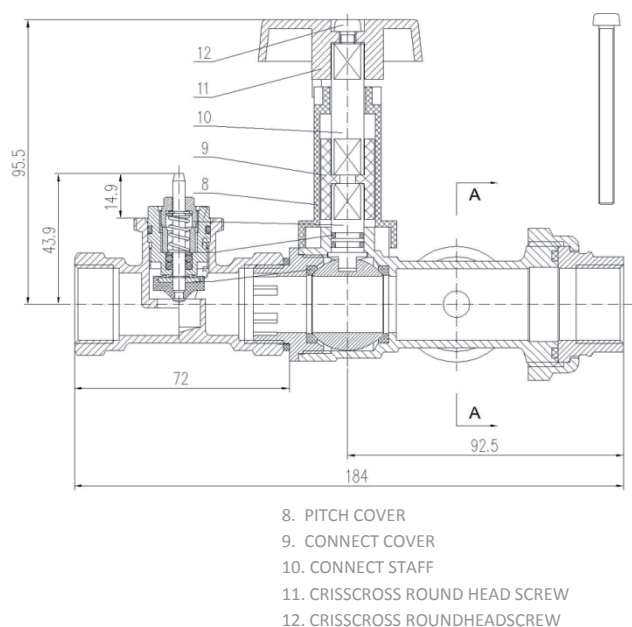
Standard Features

1. Factory Assembled (no chance for assembling mistakes)
2. Factory pressure tested (no chance for leakage)
3. Smooth internal surface makes it frictionless set of valves.
4. Valves' raised hands for insulation purposes
5. Helical stainless steel flexible connection meets any FCU center to center pipe distance, and has null pressure drop at any twisting angle.
6. Fixed orifice single Kv value flow measuring station with +/- 3 accuracy cut the time required for balancing.
7. PN 20 tested at 40 bars and 20C
8. Unions with O-ring technology can be tightened by hands for easy assembling.
9. Very Compact, 180 mm ONLY.
10. One set can cover wide range of flow rates as below
V02 20mm (0.03 ~ 0.82 l/s) (0.50~13 gpm).
V02 25mm (0.83 ~ 1.26 l/s) (13.1~20 gpm).
11. Special DZR alloy.
12. Actuator is supplied in separate box packing to avoid damage during installation.
13. Three Year Warranty.

Optional Features

1. Up to 20m cable length for the actuator to be directly connected to wall thermostat without junction boxes.
2. High quality Wall thermostat
3. Any length for the stainless steel flexible connections.

1. CONNECTOR
2. SEALING GASKET
3. CLIP RING
4. WAVY TUBE
5. CONNECT NUT



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Technical Specification

Material

Valve housing	DZR, brass, HPb59-1
Cover	DZR, brass, HPb59-1
Gasket	PTFE
Ball	Brass
Sealing ring	PTFE
O-Ring	EPDM281
Running axis	DZR, brass, HPb59-1
Pitch cover	POM
Connector cover	POM
Connect staff	HPb59-1
Handle	Aluminum Alloy
Crisscross round head screw	Steel
Hexagonal nut	DZR, brass, HPb59-1
O-Ring	EPDM-281
Female nut connector	Brass, HPb69-1
Handle wheel cover	POM
Crisscross round head screw	Steel
Handle wheel	POM
Flexible connection tube	Stainless steel 304
Hex round head screw	Steel
Adjust connector	DZR, brass, HPb59-1
O-Ring	EPDM281
Adjust staff	DZR, brass, HPb59-1
Connector cover	DZR, brass, HPb59-1

Class/Rating

Temperature	max	100 °C
Pressure Class	max	PN 20

Markings

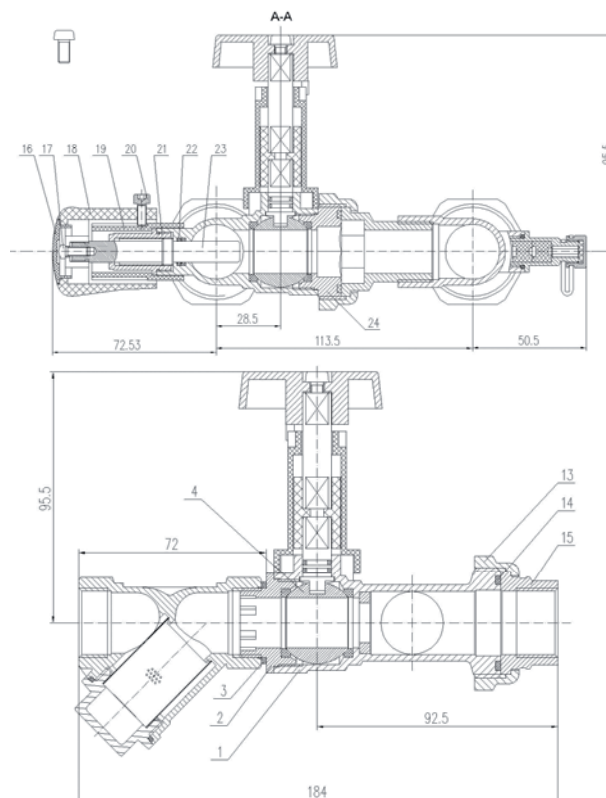
Valve house	ATS, DN 20, PN 20
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Orifice Selection

Orifice Size	Flow Range Ltr/s
Low flow	0.03 – 0.2
Medium flow	0.07 – 0.5
High flow	0.12 – 0.8

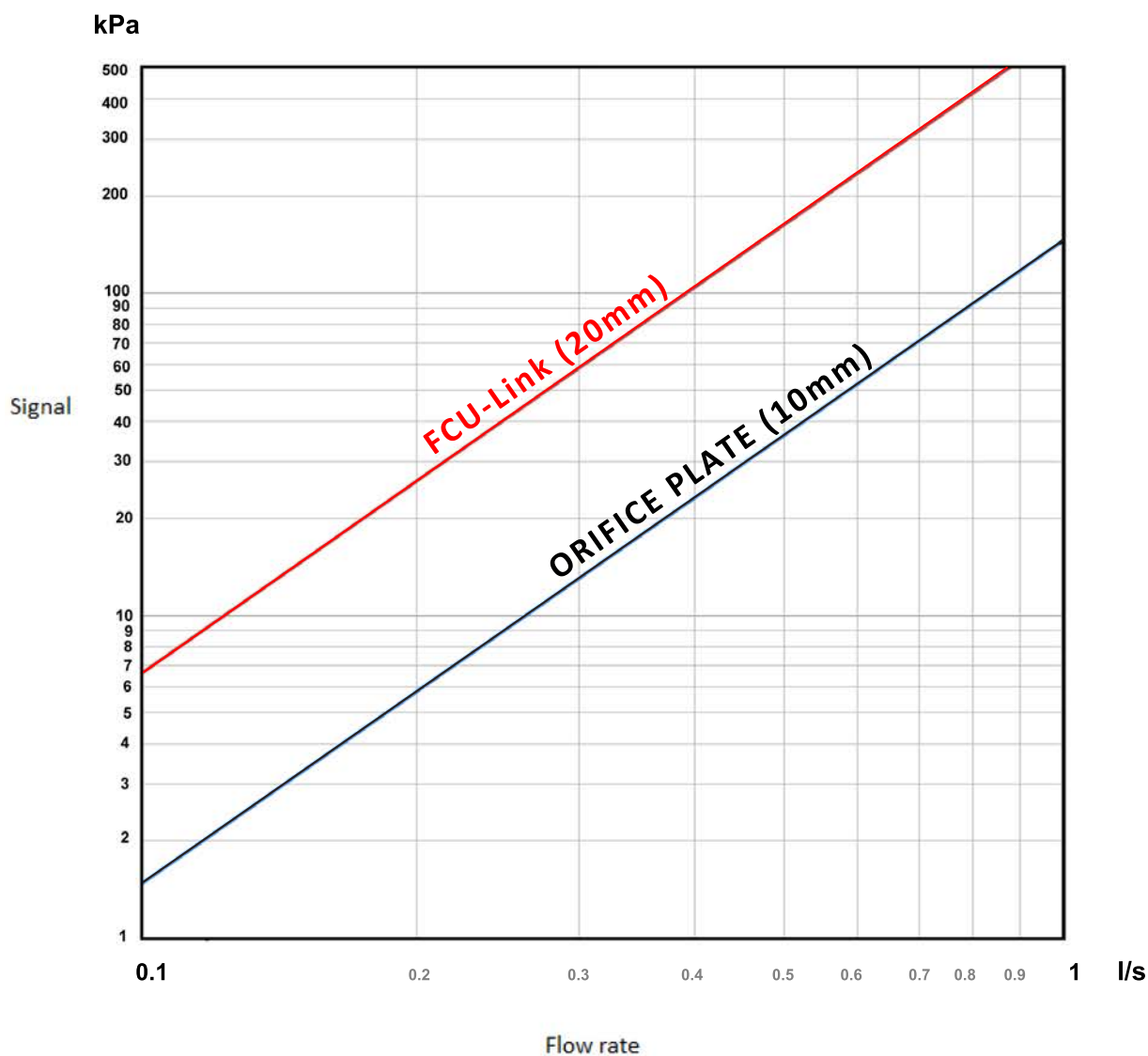
16. HANDLE WHEEL COVER
17. CRISSCROSS
ROUNDHEADSCREW
18. HANDLE WHEEL
19. SCALE COVER
20. HEXAGGONAL ROUND
HEAD SCREW
21. ADJUST CONNECTOR
22. O-RING
23. ADJUST STAFF

1. BODY
2. COVER
3. GASKET
4. BALL
13. HEXAGGONAL
NUT
14. O-RING
15. FEMALE NUT



FLOW MEASUREMENT CURVE

DIFFERENTIAL PRESSURE DATA FOR DN 20MM

**CALCULATION OF FLOW RATE:**

$$Q = \frac{Kvs \sqrt{\Delta P}}{36}$$

Where:

Q = Flow rate (Ltr/s)

 ΔP = Signal (kPa)

Kvs = Signal Coefficient

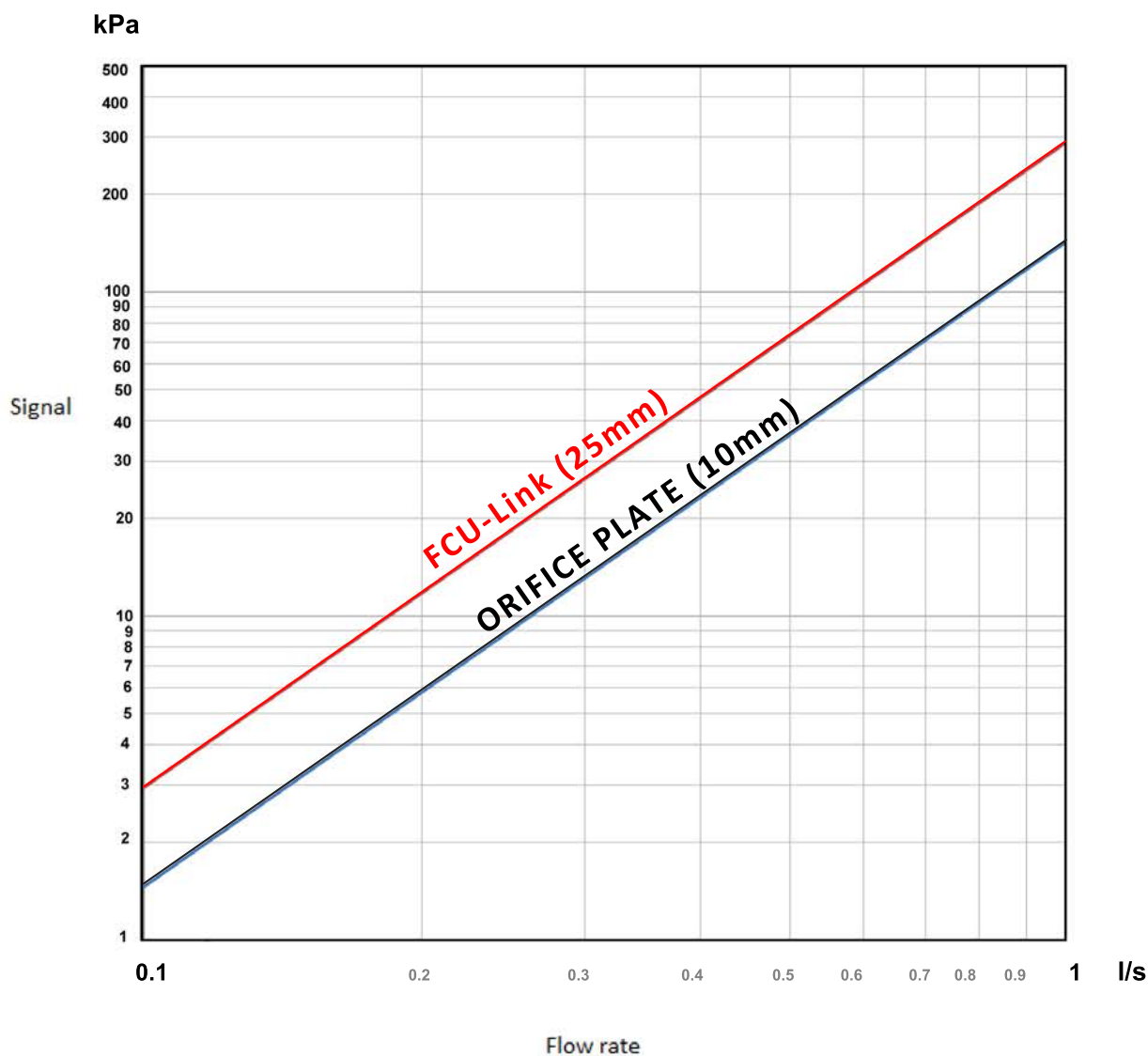
10 mm Orifice Plate	Kvs value
Orifice Plate	3
FCU-Link DN 20MM	1.4

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ATS reserves the right to change any product specifications without prior notice

FLOW MEASUREMENT CURVE

DIFFERENTIAL PRESSURE DATA FOR DN 25MM

**CALCULATION OF FLOW RATE:**

$$Q = \frac{Kvs \sqrt{\Delta P}}{36}$$

Where:

Q = Flow rate (Ltr/s)

 ΔP = Signal (kPa)

Kvs = Signal Coefficient

10 mm Orifice Plate	Kvs value
Orifice Plate	3
FCU-Link DN 25MM	2.1

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