



FCU-Link[™] V3

Pressure Independent
Control Hook - Up Link

FCU-Link™ V3

APPLICATION

FCU-Link™ V3 is a set of valves and accessories that are designed to connect the fan coil unit and the terminal unit to the chilled water or the hot water piping networks within a building

FCU-Link™ V3 combines the pressure independent control valve, isolation valve, strainers, drain valve, flexible hoses and thermal insulation into a single assembly, factory tested and ready to install unit.

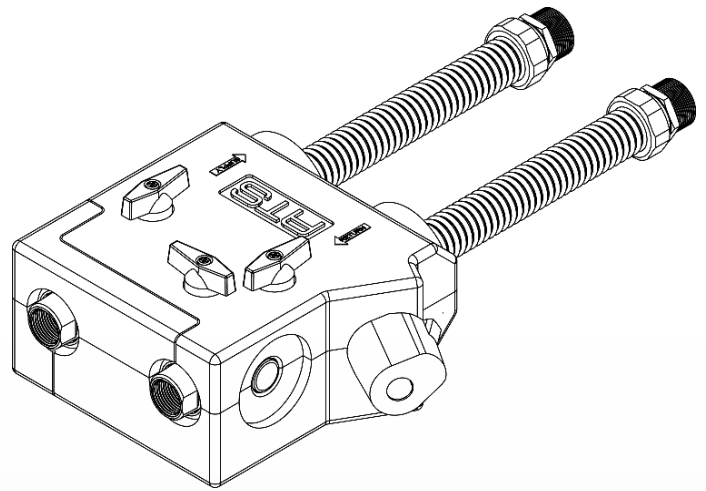


Fig.01 FCU Link V3 - with PICV

BENEFITS

Design

- ▶ Compact Solutions that warrants Minimized design and risk
- ▶ Optimum space utilization with small compact product
- ▶ Guaranteed performance for the entire assembly set

Installation

- ▶ Zero installation errors
- ▶ Easy for flushing and coil isolation
- ▶ Specially designed thermal insulation for minimum condensation
- ▶ No specialized balancing team required for installation

Operation

- ▶ Hi-flexibility in adding networks

FEATURES

- ▶ Available in 20mm and 25mm sizes
- ▶ Integral union joints for easy alignment and tightening
- ▶ Extended T-handle isolation valves
- ▶ Full bore isolating valve for supply, return and bypass
- ▶ Strainer is integrated with drain cock for compact installation
- ▶ Flexible hoses of length 30mm suitable for the site conditions, provided as a standard accessory
- ▶ Special thermal insulation boxes provided as a standard accessory
- ▶ P/T plugs provided to check the flow rate and temperature
- ▶ 230V/24V on/off and 0-10V modulating actuator available

TECHNICAL DATA

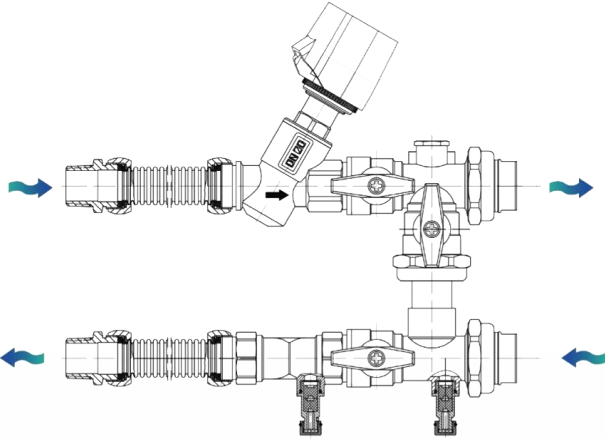


Fig.02 FCU-Link™ V3

Pressure / Temperature Ratings

Pressure (Bar)	Temperature (°C)
20	-10 to 100

Cartridge Type

Type	Pressure range (kPa)
A	10 to 95
B	21 to 240

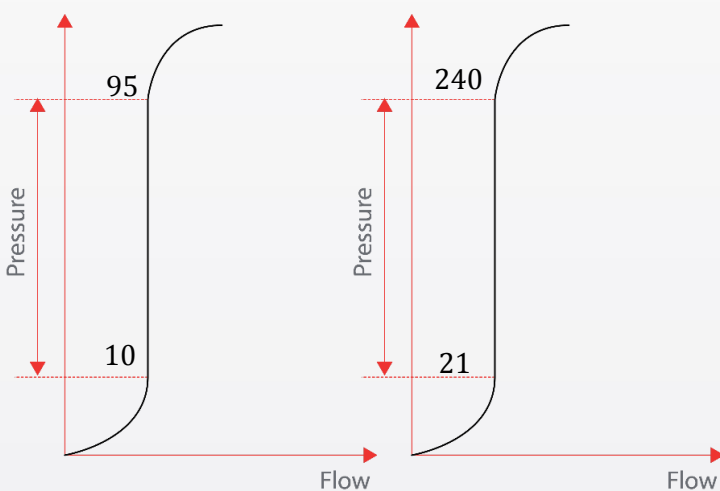


Fig. 03 Graph of Pressure - Flow across characteristics

End Connection

Size	Connection Type
20mm	F20
25mm	M25

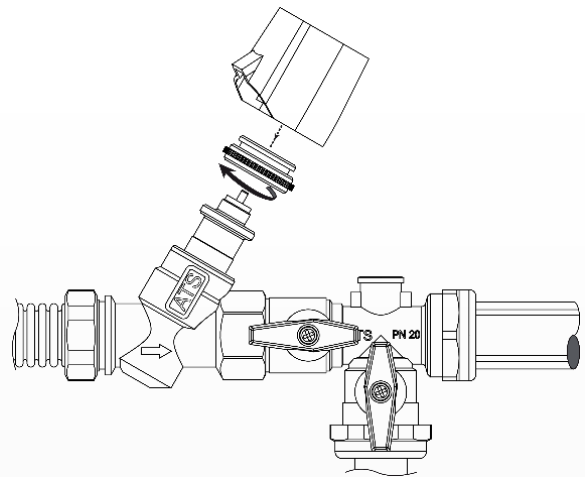
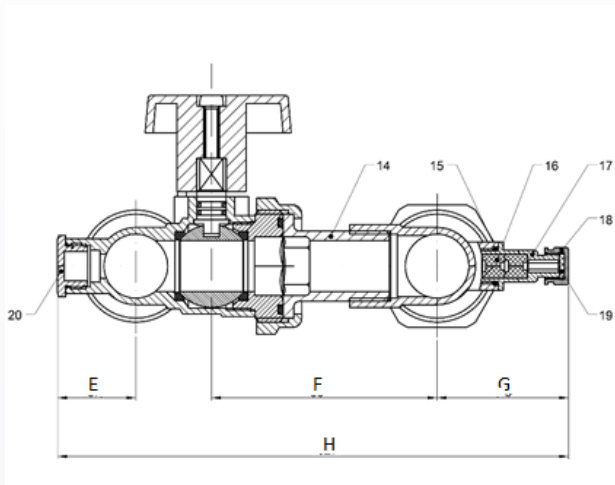
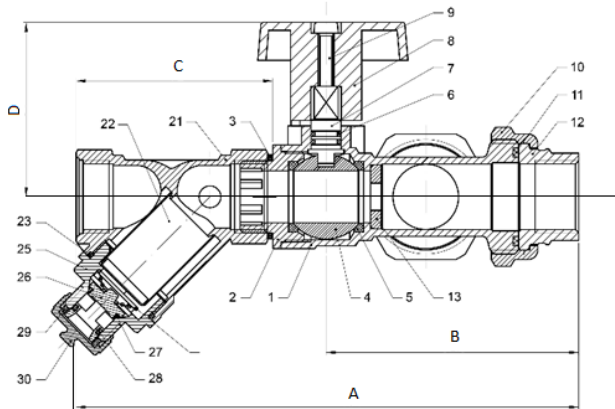


Fig.04 FCU-Link™ V3 Control Actuator

Control Actuator

Type	Voltage
On/Off	24V
On/Off	230V
Modulating	0-10V

DRAWINGS

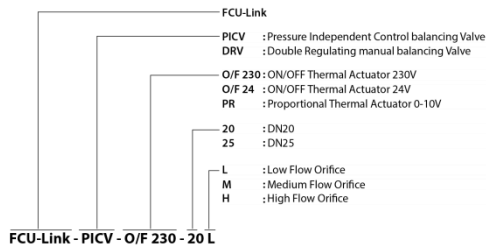


	20mm	25mm
A	184	203
B	92.5	99.5
C	72	84
D	64	64
E	29.5	29.5
F	85	85
G	49.5	49.5
H	192.5	192.5

MATERIAL OF CONSTRUCTION

No	Part Name	Material
01	Body	DZR
02	Bonnet	SS
03	Gasket	PTFE
04	Ball	Lead, Brass
05	Sealing Ring	PTFE
06	O-Ring	EPDM281
07	Rod	DZR
	Handle	POM
	Screw	SS
01	Hex Nut	Lead, Brass
02	O-Ring	EPDM281
03	Union Connector	CuZn40Pb2
04	Orifice	DZR
05	Bypass Body	DZR
06	O-Ring	EPDM281
07	Washer	EPDM281
	Joint	DZR
	Cap	Lead, Brass
01	Washer	EPDM281
02	Plug	DZR
03	Body	DZR
04	Strainer Mesh	SS
05	Gasket	PTFE
06	Spring	SS
07	Bonnet	DZR
	Valve	DZR
	O-Ring	EPDM281
01	O-Ring	EPDM281
02	Gasket	EPDM281
03	Cover	CuZn40Pb2
04	Auto Flow Cartridge	SS
05	Thermal Insulation	EPP

SELECTION & PERFORMANCE



Orifice Type	Flow Range l/s
Low Flow	0.03 to 0.2
Medium Flow	0.07 to 0.5
High Flow	0.12 to 1.0

END CONNECTION

FCU-Link Size	Connection
DN20	F20
DN25	M20

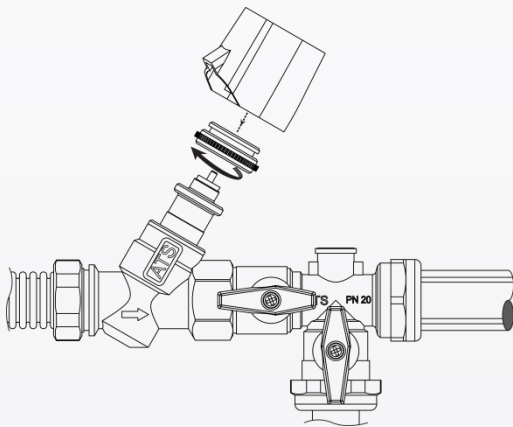


Figure 5 FCU-Link V3 Control Actuator

Control Actuator	Voltage
ON/OFF	24
On/Off	230
Proportional/Modulating	0-10



Actuator

Valve Body:



THIRD PARTY TESTING



Report

www.bsria.co.uk

ATS Fan Coil Unit Link

Report 52496/1

April 2009

Carried out for: **Advanced Technical Solutions GmbH**

Lindencorso
 Unter den Linden 21
 10117 Berlin
 Germany

Compiled by: P.Stonard

WARRANTY:

ATS warrants FCU-Link™ V3 to be defects free in material and workmanship with three years from the day of the delivery. In the event of such defect detected within warranty period ATS is to replace, recondition the product free of charge