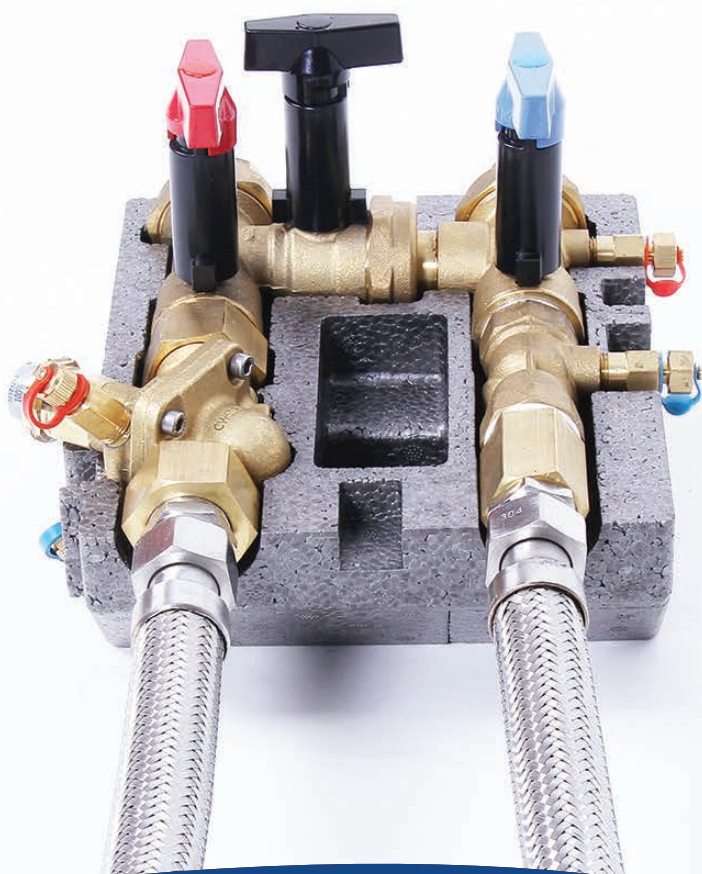


➤ T&C LINK Series 1501 Pressure Independent Balancing and Control Valve Terminal Unit Kit



T&C TROUVAY
GROUP & CAUVIN
Channelling all **energies**

T&C LINK SERIES 1501

T&C LINK: Series 1501 is a dedicated valve package designed specifically for the connection of the Fan Coil Unit to Chilled/Hot Water piping networks of Buildings. It would give end users a 100% error free and easy installation.

T&C LINK: Series 1501 is an assembly of the isolation ball valves, strainers, flexible hoses and a PIBCV (Pressure independent balancing and control valve) Model: AB-QM manufactured by DANFOSS along with a thermal insulation manufactured exclusively for the valve assembly.



FEATURES

Available in 15mm, 20mm, 25mm and 32mm sizes

Union joints with O-rings for leak free connections

Full bore isolation ball valves with extended stem for insulation purpose

Strainer integrated Drain cock

Flexible hoses for minor offset and easy connections

P/T plugs provided to check the flow rate and temperature



BENEFITS

Improved design

Compact solution

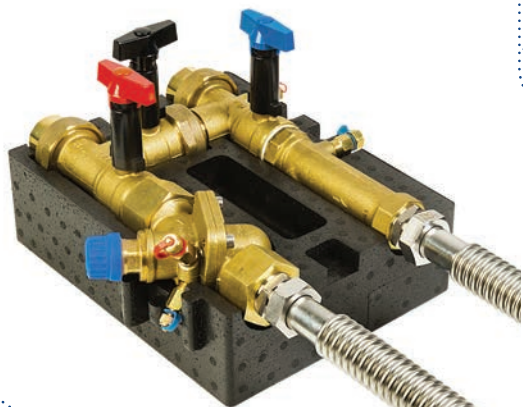
Accessibility to all the valves from single access door

Zero installation error

Easy installation

Performance guaranteed for the entire assembly

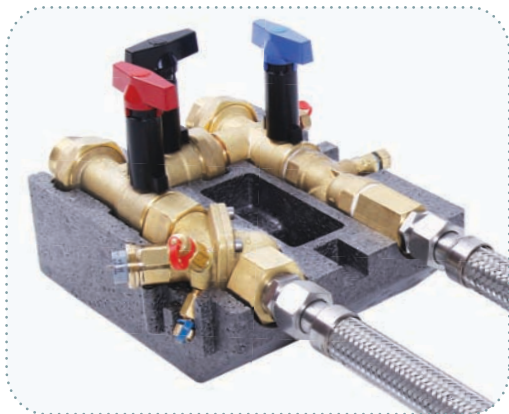
Warranty of 5 years for complete valve package



Pressure Rating	:	PN25 / PN20
Temperature Rating	:	Less than 100°C
End Connections	:	BSP
Working Medium	:	Chilled / hot water
Body Material	:	DZR Brass

- T&C LINK: Series 1501 is integrated with one of the best in class pressure independent balancing and control valves (PIBCV) Model: AB-QM manufactured by DANFOSS.
- The T&C LINK: Series 1501 is supplied with DANFOSS actuators depending on the site requirement of the end user.

PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE BY DANFOSS

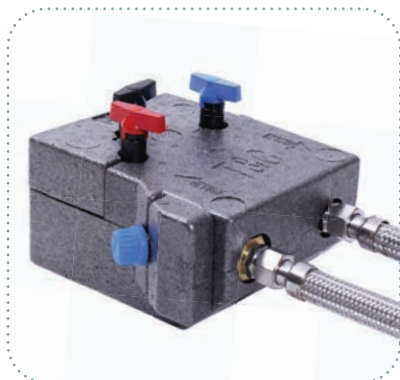


T&C LINK: Series 1501 is integrated with one of the best in class pressure independent balancing and control valves (PIBCV) Model: **AB-QM manufactured by DANFOSS**. The T&C LINK: Series 1501 is supplied with **DANFOSS actuators** depending on the requirement of the end user.

Using a Model: **AB-QM Pressure Independent Balancing and Control Valve** with **DANFOSS actuator** will give an enormous amount of savings:

- Efficient energy and minimal pumping costs since there are no overflows at partial loads because of the exact pressure independent flow limitation
- Smaller pump investments and lower energy consumption as the pump head needed is lower than the traditional setup.
- Reduced movements of the actuators since the built in differential pressure controller ensures the pressure fluctuations do not influence the room temperature
- Achieving a stable temperature in a room leading to a lower average temperature at the same comfort level
- Minimal flow complaints as the valve performs as designed
- Minimal blockage complains as the membrane designs makes AB-QM less susceptible to blockage than a cartridge type
- Trouble free segmentation of the building project. When sections of a project are finished they can normally not be handed over to the customer with a fully functional HVAC installation. However the AB-QM with a DANFOSS actuator will automatically control the flow even when other parts of the installation are still unfinished. It is not needed to adjust the AB-QM after finalisation of the project
- Commissioning cost: - The cost is close to Zero because of a convenient setting procedure without the need for flow charts calculation or measuring equipment. The AB-QM valves can be set to precise design value even when the system is up and running
- Halved mounting costs as the AB-QM valve covers two functions, balancing & control

THERMAL INSULATION



T&C LINK: Series 1501 are supplied with an insulation material made of Expanded Polypropylene (EPP). The EPP foam is moulded into the same profile of the complete valves to give improved thermal insulation and to avoid any condensation to the valve kit.

BENEFITS

- Specifically made for the T&C LINK
- Material: Expanded Polypropylene
- Designed to accommodate the same profile of the valves
- Condensation minimised
- Easy Installation
- Supplied with every valve package
- Environment friendly: CFC and HFC Free
- Low 'λ' value
- Impermeable to moisture
- High compressive strength
- Good rigidity
- High energy savings

PROPERTIES

Description	Values	Test Method
Temperature Range	-25°C to 80°C	
Density (kg/m ³)	35	
Thermal conductivity W/(m-K)	0.037	ISO 8301-8302
Tensile Strength kPa	700	ISO 1798
Compressive Strength		
@ 50% Strain (kPa)	422	ISO 844
Flexural Strength (kPa)	1423	ASTM C203
Flame Propagation	Class D/HF-1	EN 13501-1/ UL 94
Smoke Developed	S2	EN 13501-1
Droppings While Burning	D1	EN 13501-1
Resistance To Fungi	GOOD	
Resistance To Bacteria	GOOD	

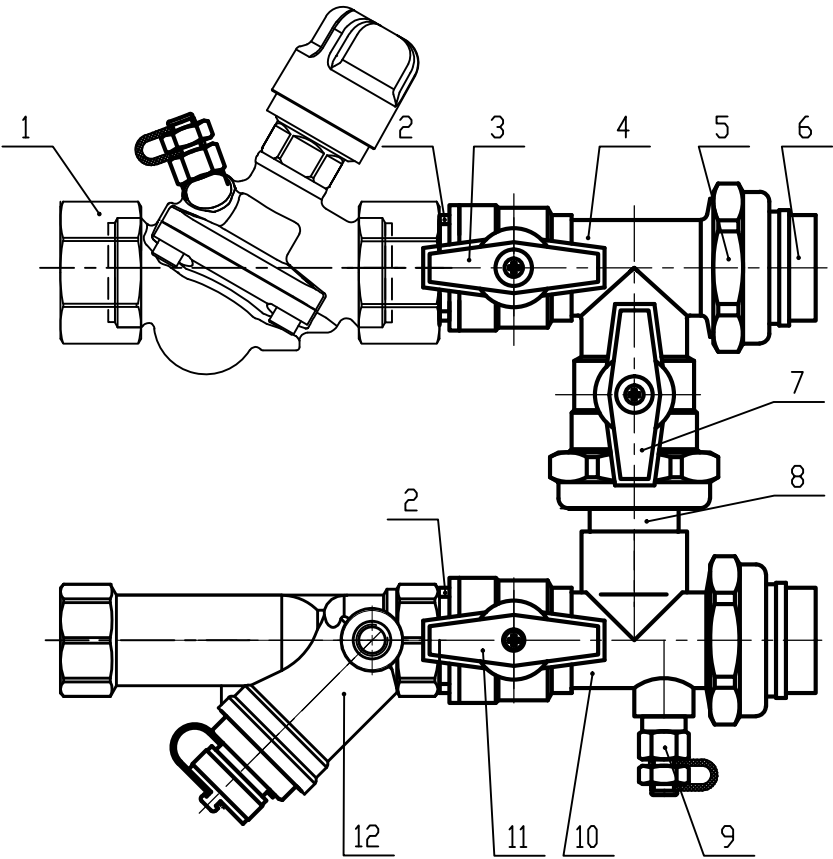
FLEXIBLE HOSES

T&C LINK: Series 1501 are supplied with flexible hoses which help in vibration isolation from the terminal units and enables offsetting to connect to the terminal units from the piping network.

PROPERTIES

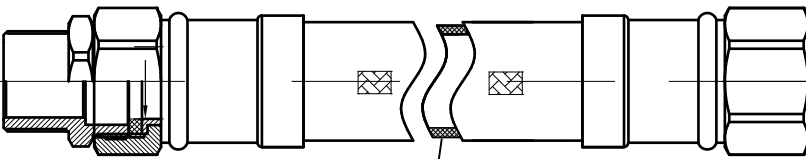
Pressure rating: PN 25 / PN 20 / PN 16
Temperature rating: Less than 100°C
End Connections: BSPP
Working Medium: Chilled/ Hot Water
Body Material : SS 304 (PN25 in braided, with EPDM-Inner tube)
Lengths Available: 200mm, 300mm, 600mm

CONSTRUCTION MATERIAL



Part No	Item	Material
1	BUSH	CW602N
2	Gasket	PTFE
3	Handle (Red)	Aluminium
4	Ball valve	CW602N
5	Nut	CW602N
6	Female Nipple	CW602N
7	Handle (Black)	Aluminium
8	Connection Piece	CW602N
9	Test Points	CW602N
10	Ball valve	CW602N
11	Handle (Blue)	Aluminium
12	Strainer	CW602N
13	Flexible Hose	SS304

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EPDM Inner Tube

PRODUCT COMPARISON



T&C LINK

Compact / Small in size: 20 x 20 cm access hatch required.

Fewer numbers of threads and connections which reduces the chances of errors and leaks in the T&C LINK.



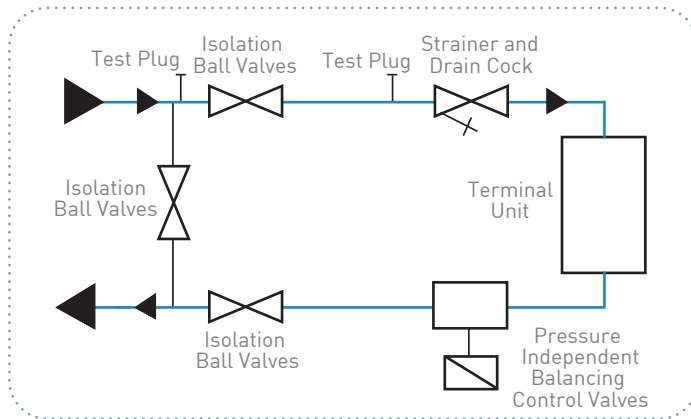
CONVENTIONAL VALVES

Needs a space of atleast 1m x 1m space access hatch.

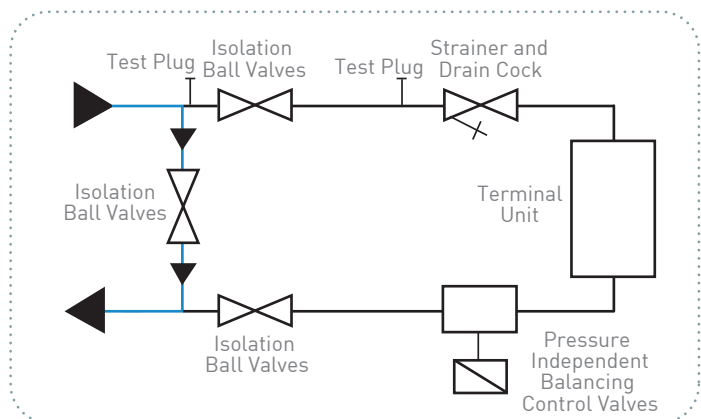
Huge numbers of connections which make the system more prone to errors and leaks.

OPERATIONS

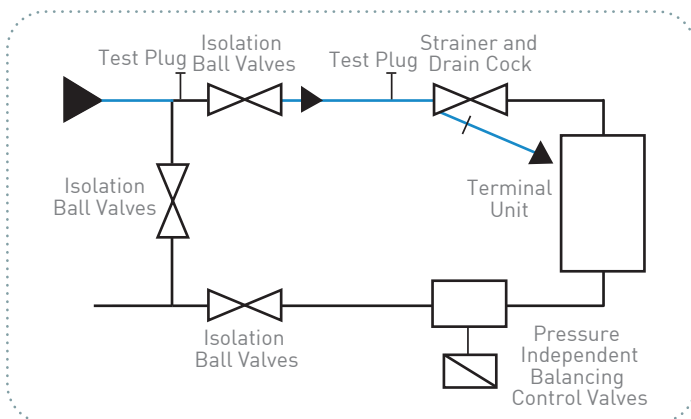
NORMAL FLUSHING



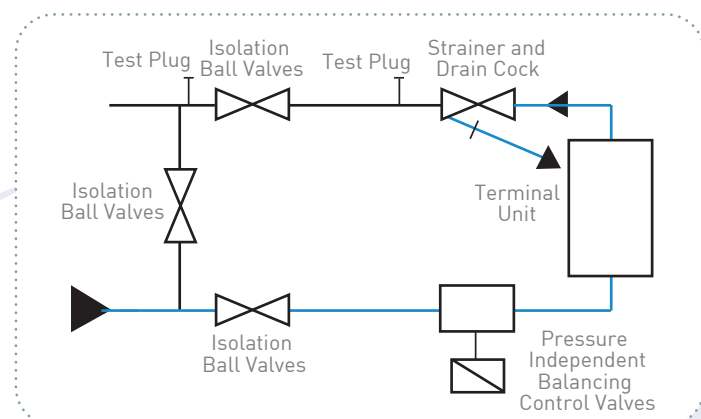
BYPASS FLUSHING



FORWARD FLUSHING



BACKWARD FLUSHING



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