

READY-TO-INSTALL FCU HOOK-UP

PRESSURE INDEPENDENT CONTROL



PN25
SYSTEM RATING

AVAILABLE SIZES

DN15 • DN20 • DN25

COMPACT. TESTED. READY TO INSTALL.

A compact hook-up for Fan Coil Units (FCUs) integrating a Pressure Independent Control Valve (PICV) with isolation, bypass, strainer with drain, flexible hoses, insulation box and P/T test points. The kit is delivered pressure-tested and ready to install, minimizing site labor and errors.

PICV + ISOLATION + BYPASS + STRAINER/DRAIN

FLEXIBLE HOSES + P/T TEST POINTS

KEY FEATURES

- PN25 system rating (kit).
- Sizes: DN15, DN20 and DN25.
- DZR brass bodies for wetted valve components.
- Threaded ends to ISO 7 / BS EN 10226-1.
- 3-way isolation: Supply, Return and Bypass.
- Strainer with integral drain cock for forward/back flush.
- P/T test plugs for commissioning.
- Flexible SS braided hoses: 300 mm standard; 150-600 mm on request.
- Optional fire-rated EPP insulation box to minimize condensation.

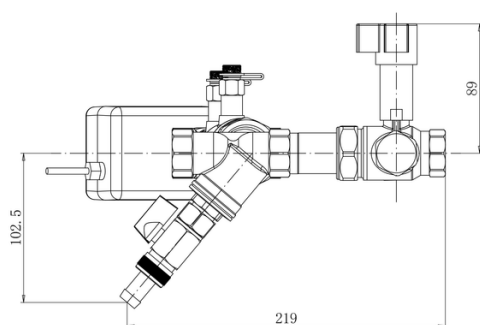
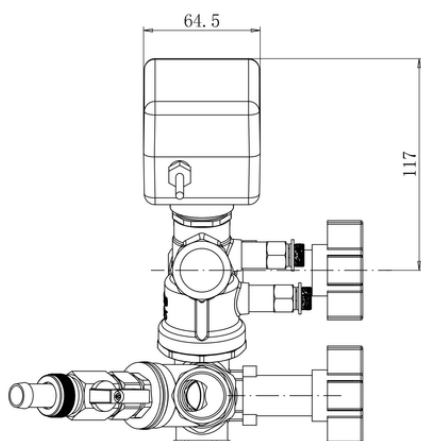
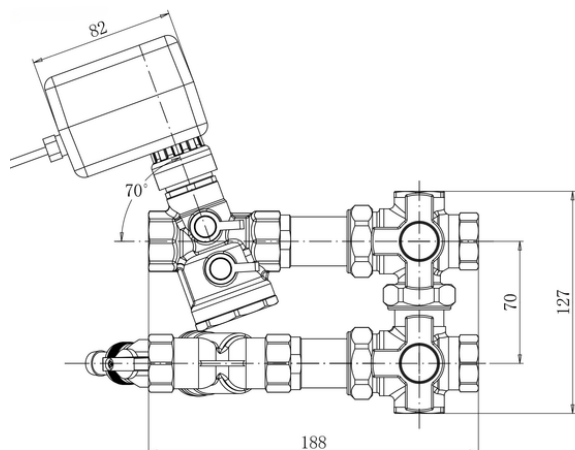
BENEFITS

- Monitor water flow and Δp via P/T points.
- Thermal insulation helps limit condensation.
- No specialist balancing team; zero installation errors.
- Easy coil isolation and system flushing: bypass, forward flush and backflush.

APPLICATIONS

- Chilled and hot water FCU circuits requiring accurate flow control and easy flushing.
- Retrofits where compactness and zero balancing errors are essential.

DIMENSIONAL DRAWINGS



All dimensions are shown in millimetres (mm).

SYSTEM RATINGS (KIT)

- Pressure rating: PN25
- Service temperature (typ.): 1...110°C (system).

PICV — PRESSURE INDEPENDENT CONTROL VALVE

- Construction: 3-in-1 — DP controller + modulating control + presetting.
- DP operating range (typ.): DN15: 25...400 kPa; DN20/25: 30...400 kPa.
- DN15 flow: Qmin 0.18 m³/h; Qmax 0.60 m³/h.
- DN20 flow: Qmin 0.30 m³/h; Qmax 1.00 m³/h.
- DN25 flow: Qmin 0.34 m³/h; Qmax 1.70 m³/h.
- Connections: BSP, PN25.
- Media: Chilled/Hot water with corrosion inhibitor.

KIT COMPONENTS

STRAINER WITH DRAIN

Integrated drain cock for forward flushing to atmosphere and backflushing through the FCU.

ISOLATION VALVES & BYPASS

3-way arrangement (S/R/Bypass) with extended T-handles to suit insulation thickness.

FLEXIBLE HOSES

Corrugated bellows with SS304 braid. DN15-20 fully corrugated; DN25 partially corrugated. Standard 300 mm; 150-600 mm on request.

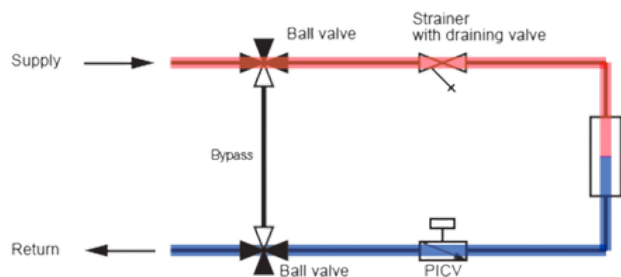
HOSE RATING & OPTIONS

Up to PN25 / 120°C (braided type); hydrostatic test 37.5 bar braided / 30 bar non-braided. SS316 hose, SS304 ends, dielectric ends, NPT threads and insulation sleeves available.

MATERIALS

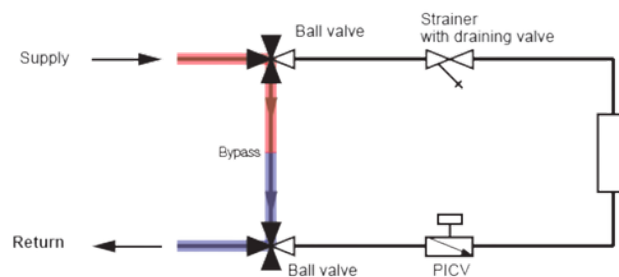
No.	Component	Material
1	Bypass body	DZR Brass
2	Strainer (with drain)	DZR Brass
3	PICV body	DZR Brass
-	Hose braid	SS304 (316 optional)
-	Insulation box	EPP, fire-rated (optional)

NORMAL



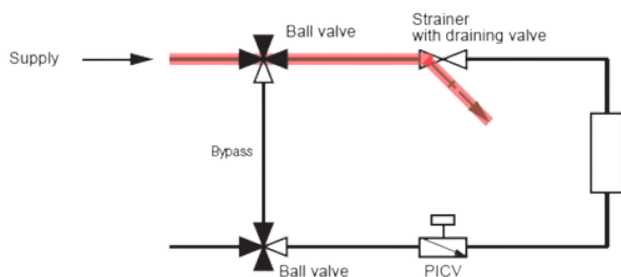
Bypass closed; strainer drain closed; S/R isolation valves open; PICV preset.

BYPASS — SYSTEM FLUSH



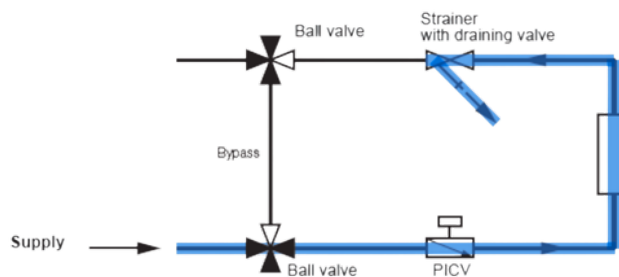
Bypass open; PICV closed; other valves as shown in the schematic.

FORWARD FLUSH



Bypass closed; supply valve open; strainer drain open; discharge to atmosphere.

BACKFLUSH



Bypass closed; strainer drain open; PICV open; flow through FCU back to strainer drain.

FLEXIBLE HOSES FOR FCU HOOK-UP

- Maximum pressure / temperature rating: PN25 / 120°C.
- Hydrostatic test pressure: 30 bar.
- Braided hose: Stainless Steel Type 304.
- Standard length: 300 mm.
- DN15-20 fully corrugated; DN25 partially corrugated.
- DZR brass end connections (Male x Female) to ISO 7 / BS EN 10226-1.
- Available with insulation.

