

Bypass Units



Frese MODULA Range

Bypass Units



Frese MODULA



Bypass Units

Frese at the heart of flow control

Frese

Innovative solutions from Frese balance global HVAC systems accurately and efficiently. From cooling systems in the Middle East to heating systems in Scandinavia, our products transform state of the art technology into everyday solutions.

Over 25 years' experience producing dynamic balancing solutions, has positioned Frese as the leading manufacturer of energy saving valves and through our commitment to innovation, we continue to be at the forefront of technological advancements in our areas of expertise.

To support our products, the knowledge, experience and dedication of our employees and partners ensure our solutions are applied correctly to maximise savings and position Frese as the authoritative voice for pressure independent and dynamic solutions.

Prefabricated Solutions

The increasing popularity of off-site prefabrication has significantly helped installers to increase efficiency and minimise risk during the installation process.

Manufacturing and assembling complimentary system components in a controlled, off-site environment not only guarantees that the prefabricated components are assembled to the necessary standards but also that they are tested sufficiently to ensure they are fit for purpose.

Prefabricated solutions can range from flushing bypass arrangements for small terminal units to large skid units for pump and plant room equipment.

Frese MODULA · Bypass Unit

The Frese MODULA range of bypass units are a compact and versatile valve system that combines the Frese range of automatic flow, pressure and temperature control valves with isolation, flushing, draining and measurement components. These are supplied within a prefabricated, tested and ready to install assembly for easy flushing and terminal unit isolation.

The Frese MODULA range can be installed with the Frese OPTIMA Compact pressure independent control valve, the Frese SIGMA Compact dynamic balancing valve, the Frese PV Compact differential pressure control valve, the Frese ALPHA dynamic balancing valve, the Frese EVA pressure independent balancing and control valve and the Frese STBV balancing valve.

Benefits

- Compact design for limited space availability
- Simplified installation process
- Extended stems allow for insulation
- Simplified flushing procedure and coil isolation
- Option for extended centres for installation flexibility (not MODULA Direct)
- Integral union joints for valve alignment

Frese MODULA Range



Technical Data · Frese MODULA Pro

Size Range:	DN15 – DN25
Material:	DZR Brass
Medium Temperature Range:	0°C to +120°C
Pressure Class:	PN20
Flow Range:	Dependent on the selected Frese valve



Technical Data · Frese MODULA

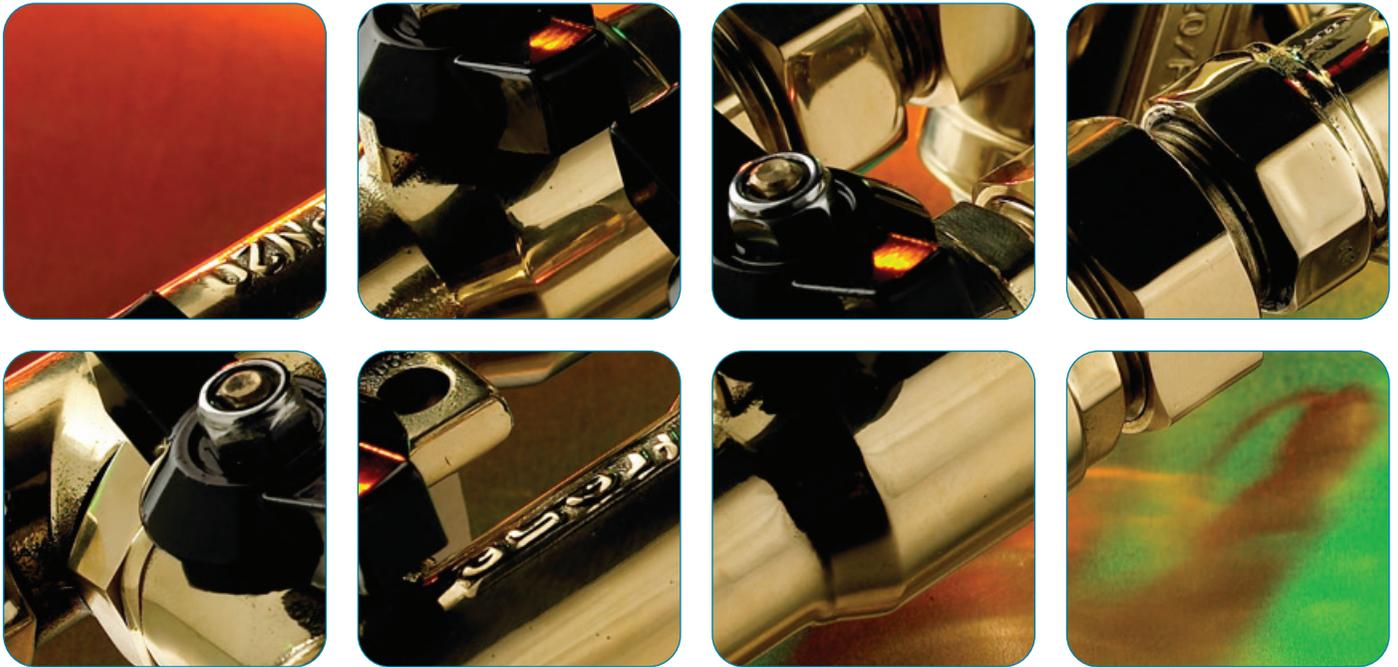
Size Range:	DN15 – DN25
Material:	DZR Brass
Medium Temperature Range:	0°C to +120°C
Pressure Class:	PN25
Flow Range:	Dependent on the selected Frese valve



Technical Data · Frese MODULA Direct

Size Range:	DN15
Material:	DZR Brass
Medium Temperature Range:	0°C to +120°C
Pressure Class:	PN16
Flow Range:	Dependent on the selected Frese OPTIMA Compact
Venturi Kv Values:	0.198 - 0.598 - 1.394 - 2.361





Complete Solutions

To meet varying project demands, the bypass unit is available in 3 types:

MODULA PRO

- 3 isolation valves that allows full supply and return isolation in addition to complete terminal unit isolation for maintenance purposes.

MODULA

- 2 isolation valves that allows full supply and return isolation and complete terminal unit isolation.

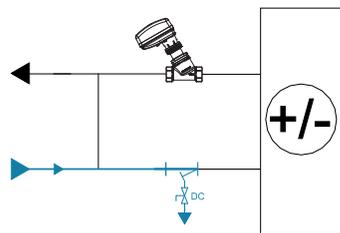
MODULA Direct

- 2 isolation valves, drains on supply and return and an integral venturi for flow verification.

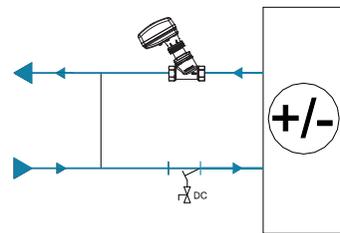
The MODULA range can be supplied with a built in strainer, drain/hose union connection and PT plug in addition to extended stems for insulation.

Modes of Operation

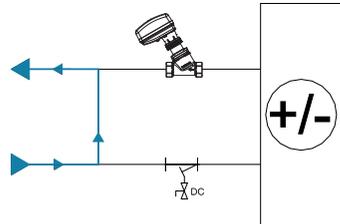
Forward flushing - right hand version



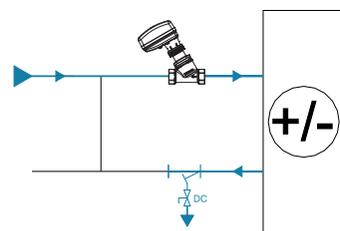
Normal operation - right hand version

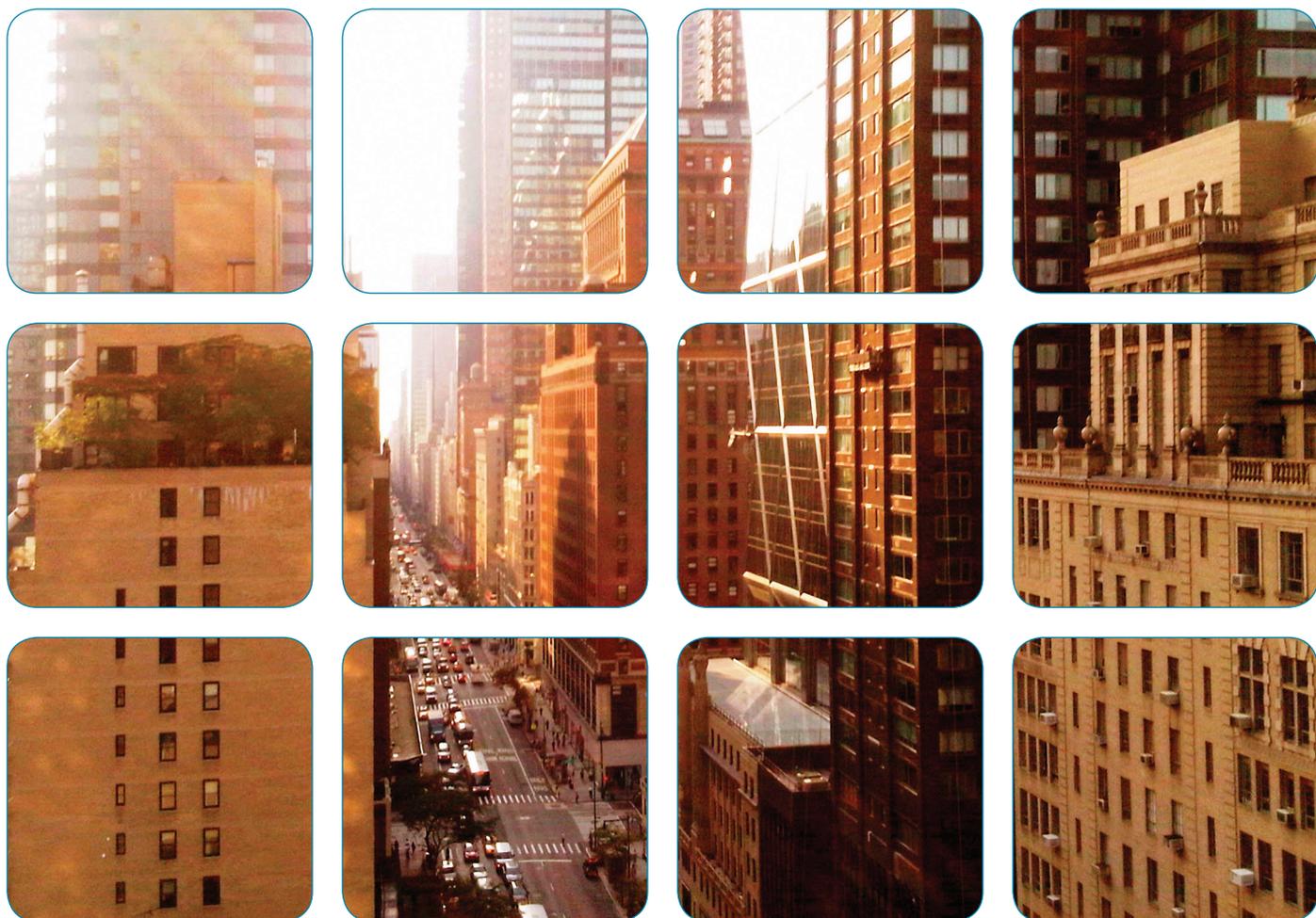


Isolation, Maintenance & Flushing bypass - right hand version



Back flushing - right hand version





Frese MODULA Range for HVAC Applications

For over 25 years, Frese has specialised in the design and manufacture of dynamic, pressure independent flow solutions for heating and cooling applications in a wide variety of market sectors including commercial office developments, hotels, educational establishments, sports complexes and residential buildings.

The Frese MODULA range of bypass units is combined with the Frese range of automatic flow, pressure and temperature control valves and can be used in both heating and cooling systems for accurate and efficient balancing of terminal units and simplified flushing and isolation functions.

Manufactured from DZR, the Frese MODULA range is available in the following sizes:

- MODULA PRO DN15 – DN25
- MODULA DN15 – DN25
- MODULA Direct DN15

Applications

Typical applications for the Frese MODULA bypass unit range include:

- Fan Coil Units
- Chilled Beams
- Over Door Heaters
- Radiant Panels





KNOWLEDGE

QUALITY

INNOVATION

MANUFACTURING
EXCELLENCE

CUSTOMER FOCUS

Denmark - Main Office
Frese A/S
Tel: +45 58 56 00 00

Germany
Frese Armaturen GmbH
Tel: +49 (0)241 475 82 333

United Kingdom
Frese Ltd
Tel: +44 (0) 1704 896 012

Turkey
Frese Eurasia DISTIC. LTD. STI.
Tel: +90 216 580 93 60

China
Frese Valves (Ningbo) Co., Ltd.
Tel: +86 (21) 51103212

Saudi Arabia
Frese Saudi Arabia
Tel: +966 5410 25 405

Australia & New Zealand
Frese Asia Pacific
Tel: +61431 794 414

South Africa
Frese Asia Pacific
Tel: +61431 794 414