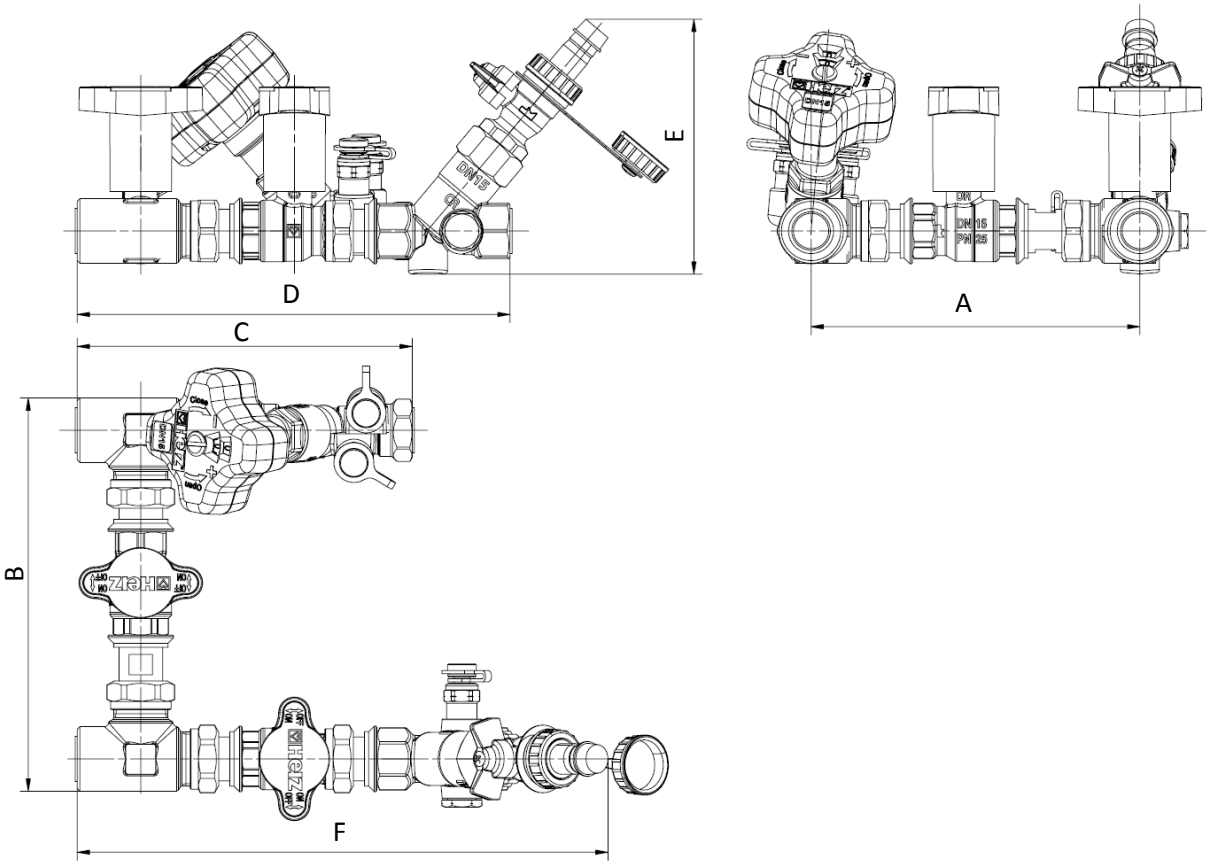
HERZ-Connect 4

Simple and reliable connection for Fan-coils and terminal units

with insulation boxes

Data sheet for **Connect 4_4017 INS,** Issue 0616

Dimensions in mm



Order No.	DN	A	B	C	D	E	F
1 **4600** 20	15LF	160	192	163	211	124	259
1 **4600** 29	15MF	160	192	163	211	124	259
1 **4600** 21	15	160	192	163	211	124	259
1 **4600** 22	20	161	192	174	234	120	281
1 **4600** 23	25	202	243	195	275	136	318

Technical data

Max. operating pressure	16 bar
Max. differential pressure on the body	4 bar
Min. operating temperature	2 °C (pure water)
Min. operating temperature	-20 °C (frost protection)
Max. operating temperature	130 °C

DN	kvs	kv
15LF	0,48	0,43
15MF	0,97	0,75
15	1,95	1,39
20	3,95	2,19
25	7,90	5,06

Materials

Body: dezincification-resistant brass
Membranes and O-rings: EPDM

Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards
Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%].

Application

HERZ Connect-4 has been designed to give a simple connection to fan-coils, or other terminal units, and utilises the Herz 4017 integral orifice commissioning valve with Herz 2206 extended lever ball valves and a Herz 4111 strainer.
The unit allows regulating, flushing and isolating operations to be undertaken.
Flow measurement can be achieved to a minimum accuracy of ± 5%
The Connect-4 is fitted in an insulation box. This means there is no product differentiation between heating and chilled, one unit does both applications.
The drain cock fitted to the strainer allows flushing without the need to remove the strainer basket and also allows the strainer basket to be cleaned in-situ.

Installation

On chilled water applications the connection between the pipe insulation and the insulated box, must provide an effective vapour seal in accordance with BS 5970:2001.

Components

4017	Commissioning Valve
2206	Extended lever Ball Valve
4111	Strainer
2512	Blow down Drain Valve

Accessories and spare parts

1 4017 ..	Commissioning Valve
1 2206 ..	Extended lever Ball Valve
1 0284 ..	test point for HERZ-Valves
1 0273 09	screw plug 1/4

Tips

The HERZ Connect-4 must be installed for the correct application using clean fittings. A HERZ strainer (4111) is fitted to prevent impurities.
Ammonia contained in hemp can damage brass valve bodies, EPDM gaskets can be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection.

Pre-setting

1. Set to the desired step according to calculation (digital display on the hand wheel).
2. Remove the hand wheel locking screw, do not remove the hand wheel from the valve.
3. Screw the presetting spindle, which is now accessible, in up to the stop.
4. Screw in the hand wheel locking screw again.
5. Mark the step set at the presetting marker and attach the marker to the valve

Point 5 is not necessary for function, but is recommended. When using a differential pressure manometer, setting can be performed only on the basis of the HERZ-flow charts. A flowrate for the STRÖMAX 4017 M valve can only be set, if a measuring instrument is used. Follow the operating instructions when using a measuring computer.

Fire Behavior

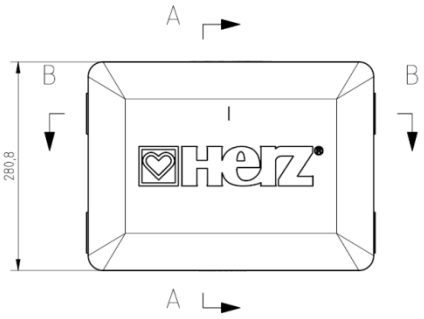
Fire Behavior for insulation box DN15 and DN25

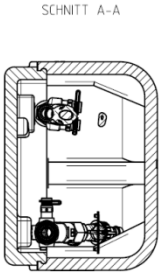
Method	Class
DIN EN ISO 11925-2 1	E
DIN 4102-1	E
FMVSS 302	Fulfilled
UL 94	HBF

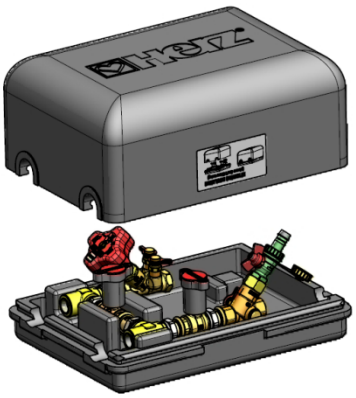
1 Edge exposure, classification according to EN 13501-1

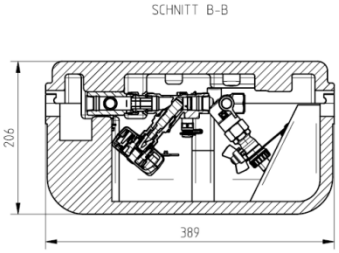
Dimensions in mm of the insulation box

1 **4600** 20
1 **4600** 29
1 **4600** 21
1 **4600** 22

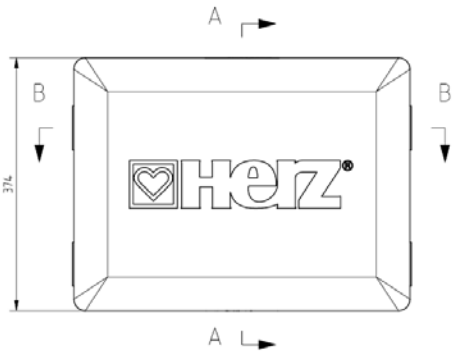


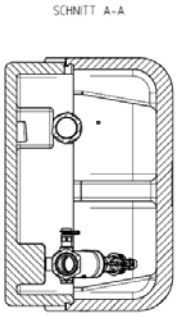


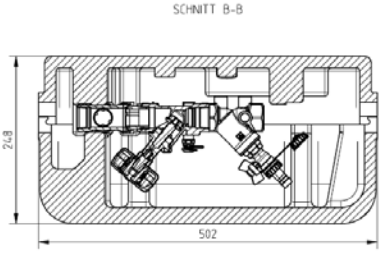


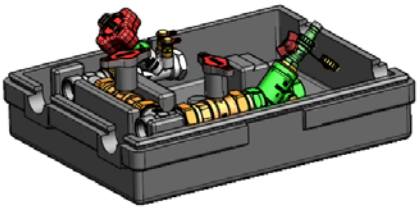


1 **4600** 23





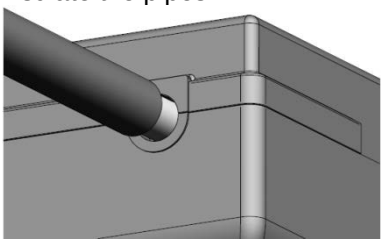




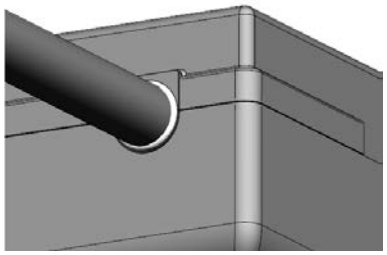
Installation

The unit is supplied in an insulated box, totally vapour sealed for chilled water circuits.

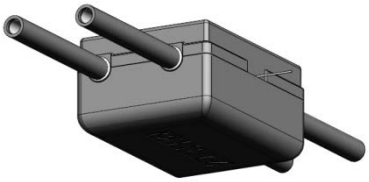
1. Connect the pipe
2. Put the cover on
3. Insulate the pipes



4. The pipe insulation has to be totally vapour sealed with the box.



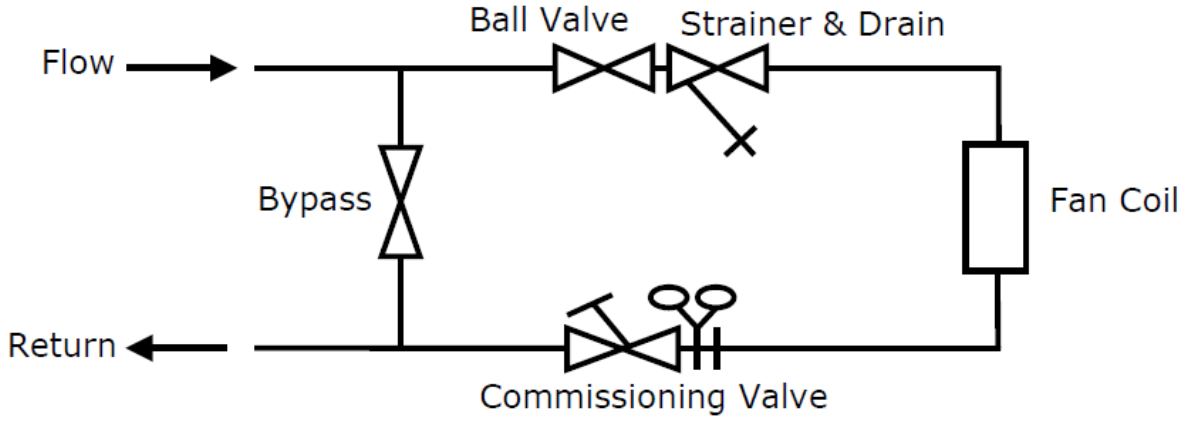
5. Check that the insulated box is totally vapoursealed to the pipework



Operations

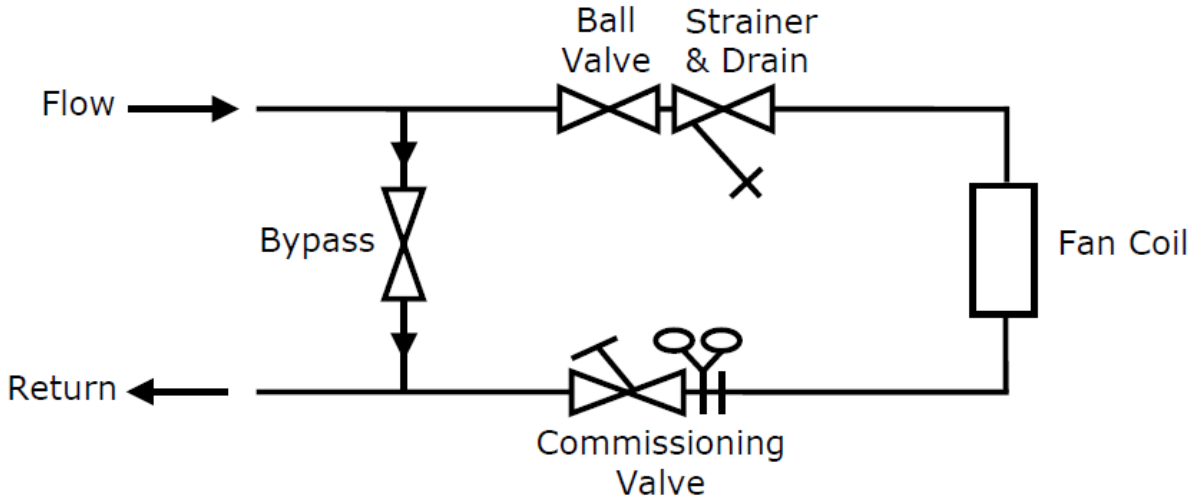
Normal Operation

For normal operation the Bypass valve is closed, Ball valve is open, Strainer Drain Valve is closed, Commissioning valve regulated.



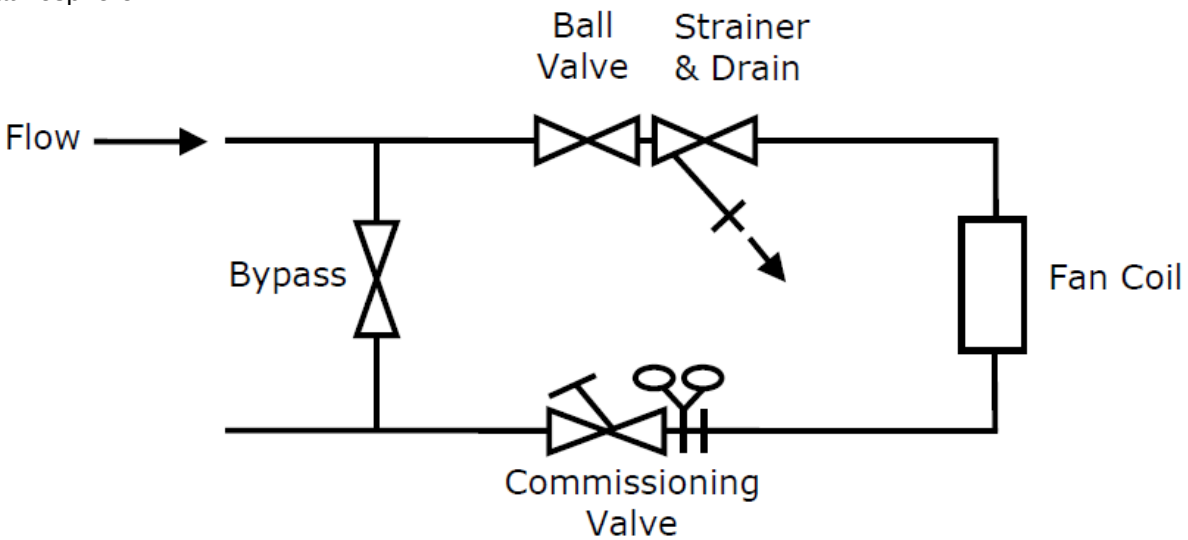
Bypass Operation

For the normal flushing method the Bypass Valve is open, Ball Valve is closed, Strainer Drain Valve closed, Commissioning Valve closed.



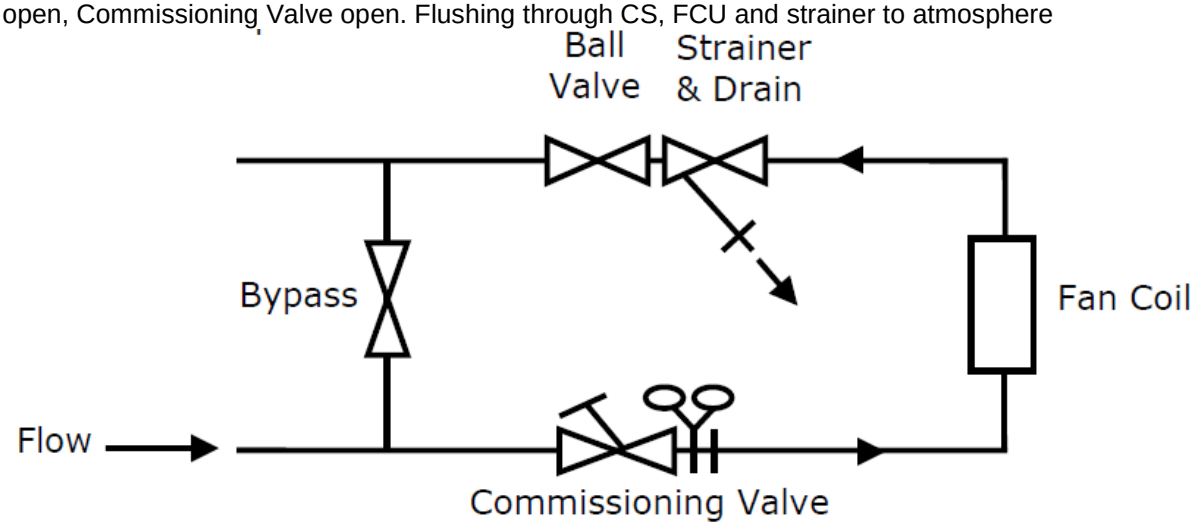
Forward flush Operation

For forward flushing operation the Bypass Valve is closed, Ball Valve is open,
Strainer Drain Valve is open, Commissioning Valve is closed and flushing through the strainer to atmosphere.

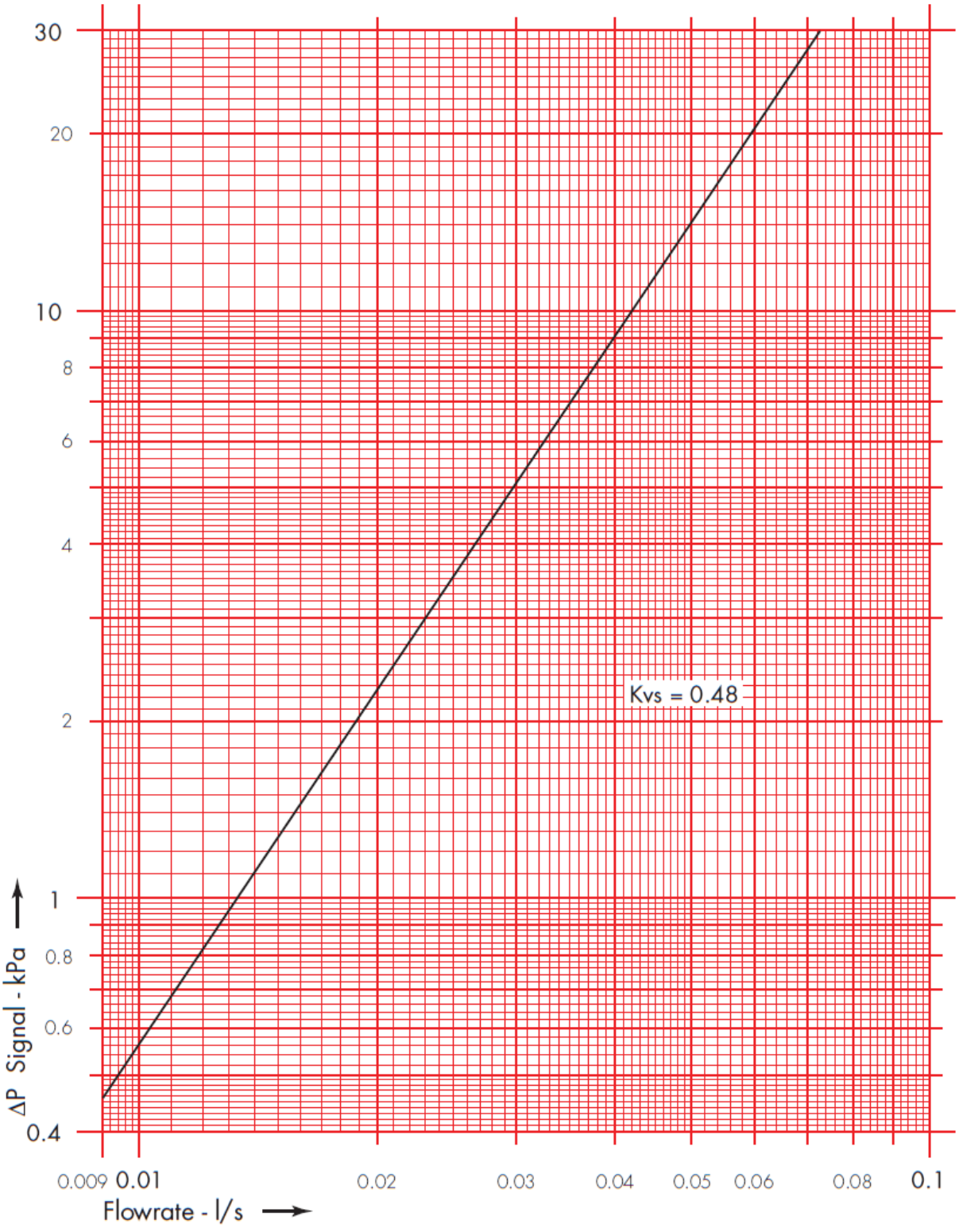


Backflush Operation

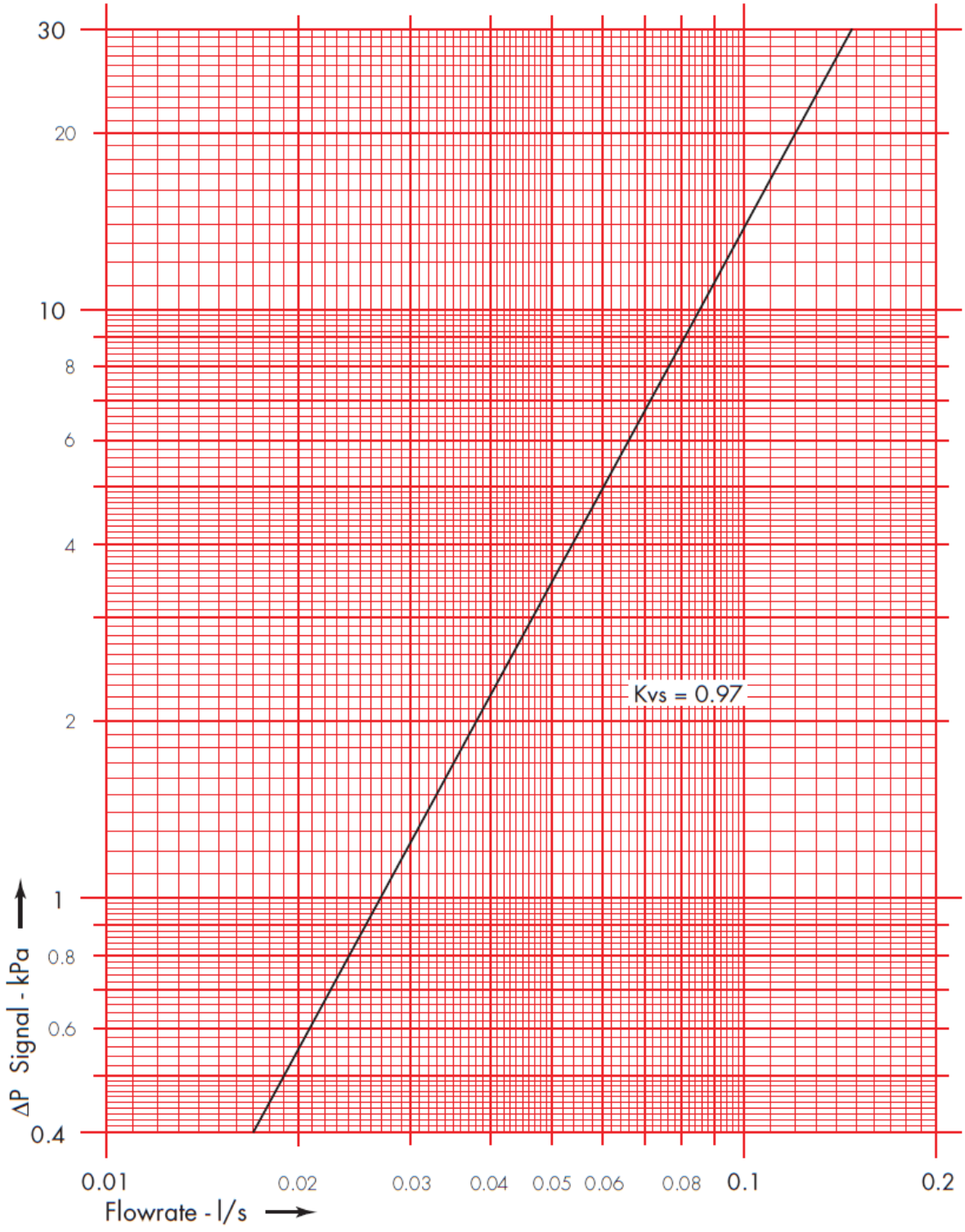
For Backflush operation the bypass Valve is closed, Ball Valve is closed, Strainer Drain Valve is open, Commissioning Valve open. Flushing through CS, FCU and strainer to atmosphere



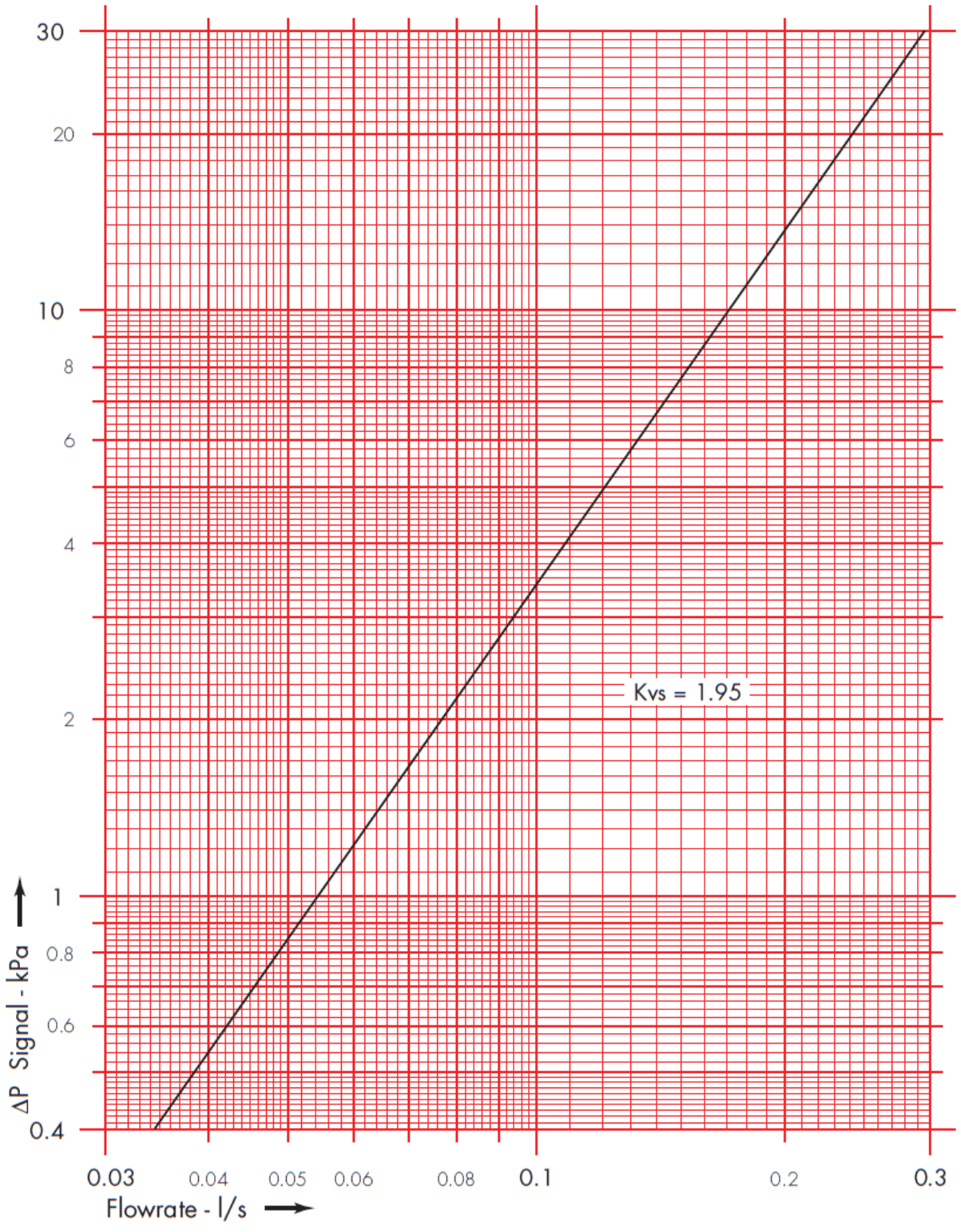
HERZ standard diagram	STRÖMAX **4017**
Order nr.: 1 **4600** 20	Dim. DN 15 LF



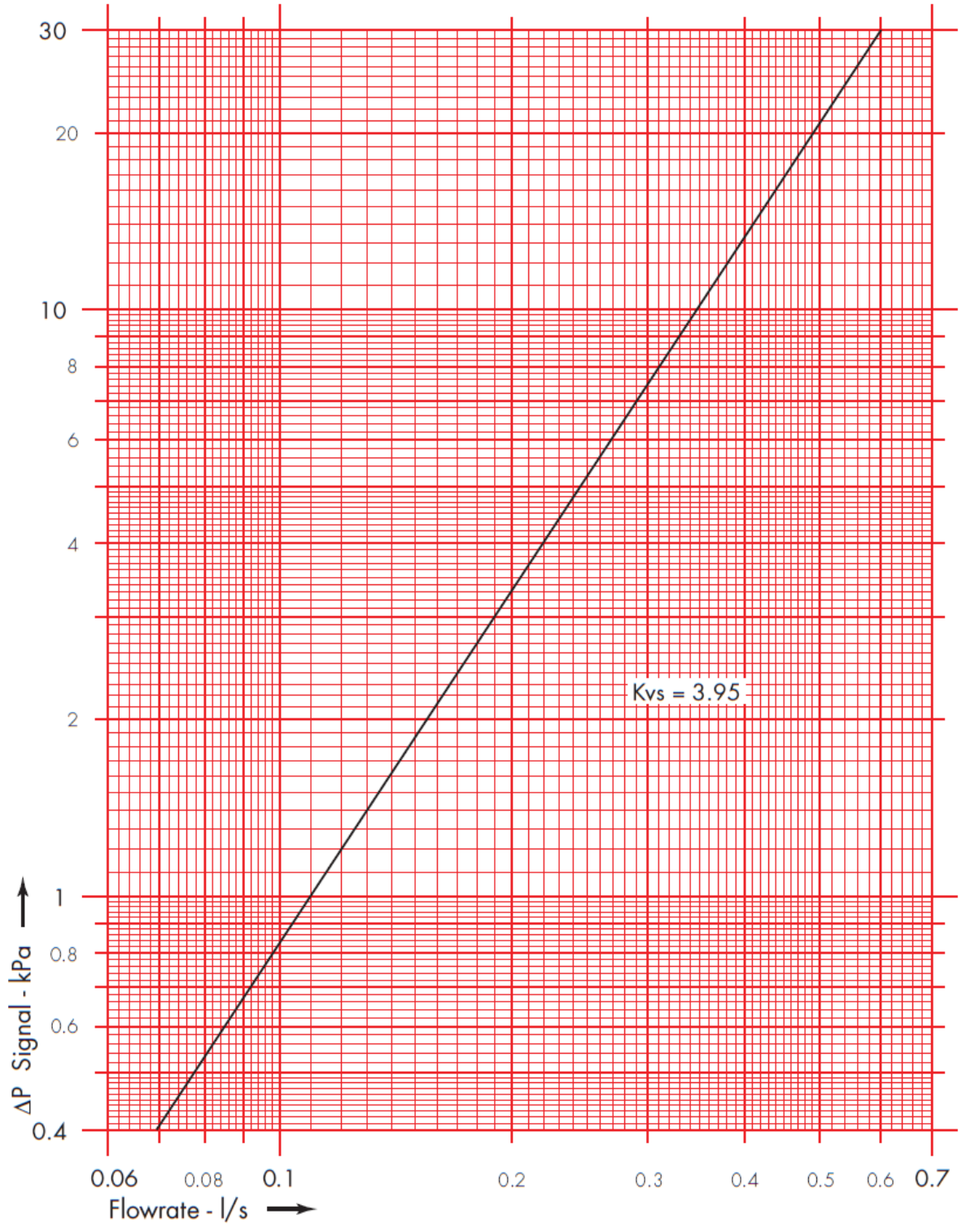
HERZ standard diagram	STRÖMAX **4017**
Order nr.: 1 **4600** 29	Dim. DN 15 MF



HERZ standard diagram	STRÖMAX **4017**
Order nr.: 1 **4600** 21	Dim. DN 15



HERZ standard diagram	STRÖMAX **4017**
Order nr.: 1 **4600** 22	Dim. DN 20



HERZ standard diagram	STRÖMAX **4017**
Order nr.: 1 **4600** 23	Dim. DN 25