

HERZ-Compact Connect 4 V

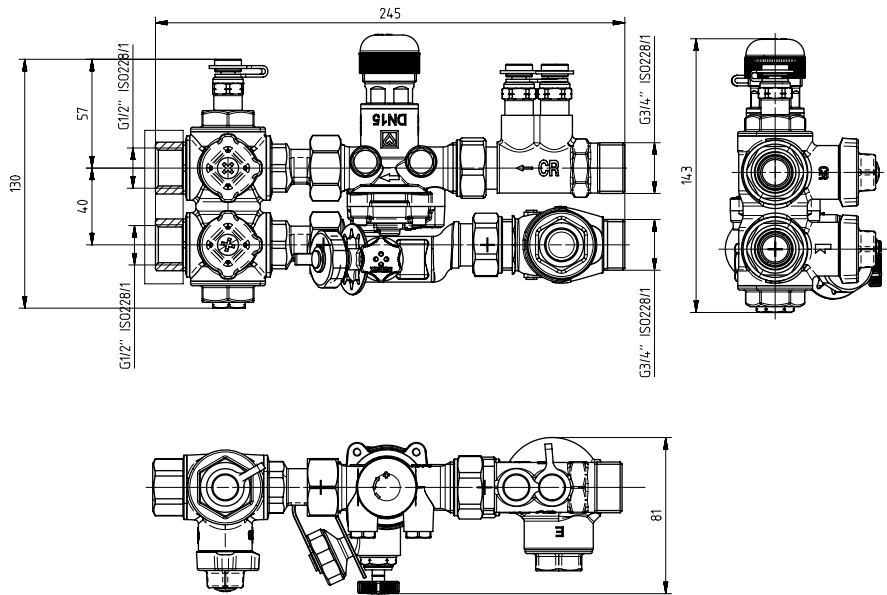
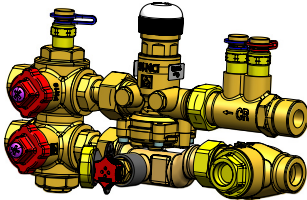
Simple and reliable connection for Fan-coils and terminal units

Data sheet **Compact Connect 4 V**, Issue 0620

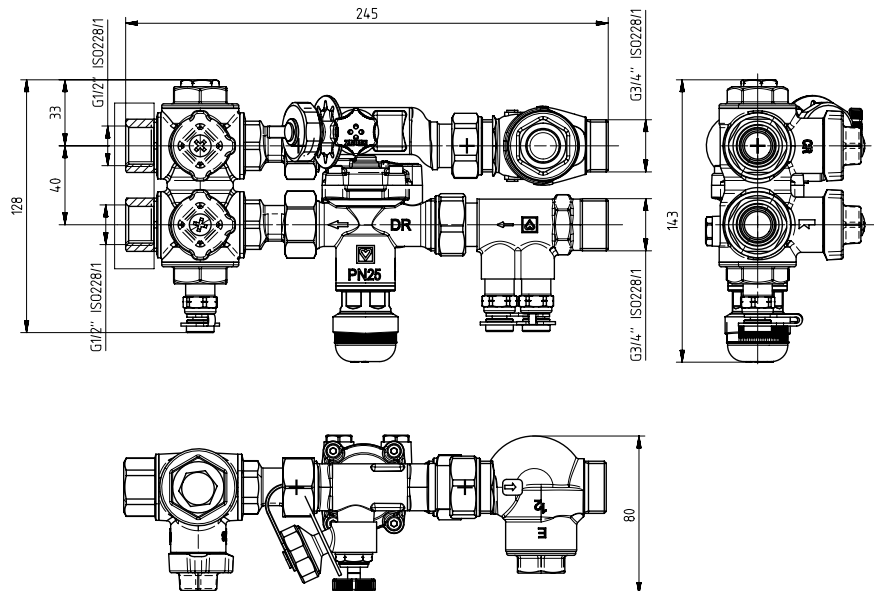
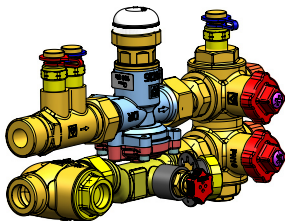
Dimensions in mm

Models with strainer

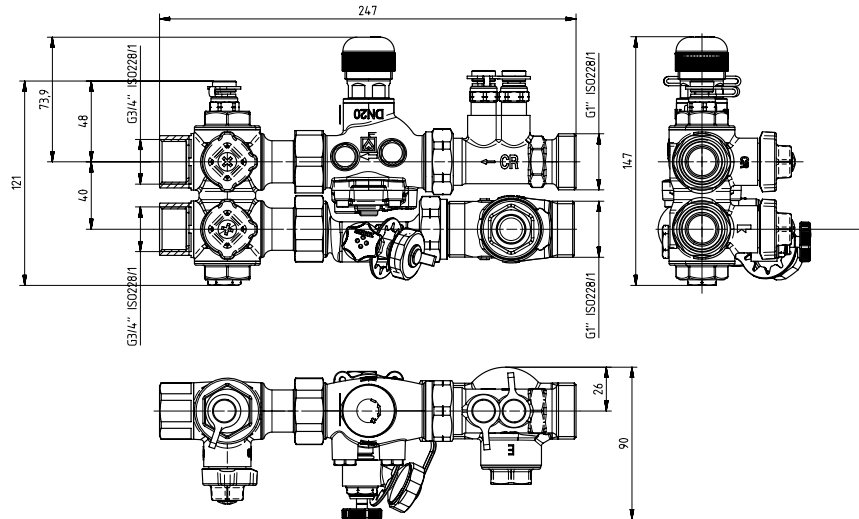
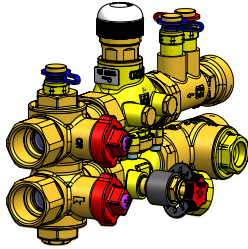
- RH version
 DN 15ULF 1 **4700 28**
 DN 15LF 1 **4700 20**
 DN 15MF 1 **4700 29**
 DN 15 1 **4700 21**



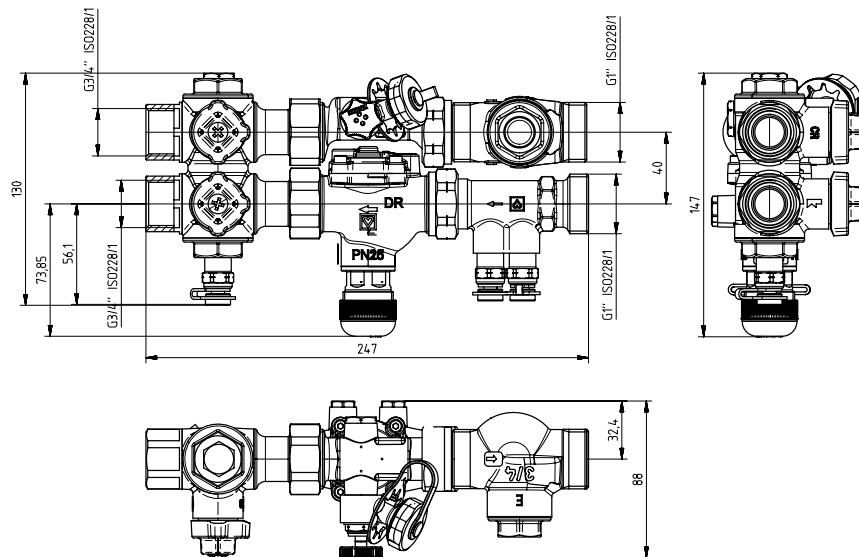
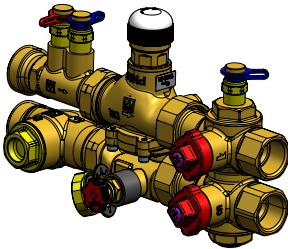
- LH version
 DN 15ULF 1 **4700 38**
 DN 15LF 1 **4700 30**
 DN 15MF 1 **4700 39**
 DN 15 1 **4700 31**



RH version
 DN 20 1 4700 26
 DN 20 HF 1 4700 27



LH version
 DN 20 1 4700 36
 DN 20 HF 1 4700 37



Technical data

Max. operating pressure	16 bar
Min. operating temperature	- 20 °C
Max. operating temperature	130 °C
Lift	4 mm

The integrated control unit together with the actuating drive is responsible for modular control. Various actuating drives might be used (see also chapter: Accessories and spare parts).

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. [%].

☑ kvs values of PIBCVs

Dimension	FCU connection size	Order number with strainer		Integral Orifice kvs	Flowrate
		LH version	RH version		
DN15 ULF	15 mm	1 4700 38	1 4700 28	0.19	0.003 - 0.013 l/s
DN15 LF	15 mm	1 4700 30	1 4700 20	0.52	0.013 - 0.030 l/s
DN15 MF	15 mm	1 4700 39	1 4700 29	1.06	0.029 - 0.045 l/s
DN15	15 mm	1 4700 31	1 4700 21	1.62	0.045 - 0.156 l/s
DN20	15 mm	1 4700 36	1 4700 26	3.39	0.40 - 0.326 l/s
DN20 HF	15 mm	1 4700 37	1 4700 27	NA	0.315 - 0.500 l/s

☑ Application

HERZ Connect-4 has been designed to give a simple connection to fan-coils, or other terminal units, and utilises the HERZ 4006 SMART Pressure Independent Balancing Control Valve with HERZ multifunctional ball valve and an optional HERZ 4111 strainer. On/off or modulating 0 – 10 V DC actuators can be fitted and integrated to a BMS if required.

The unit allows pressure independent control ensuring full stroke regardless of pressure fluctuations, while guaranteeing a constant flow rate to the terminal unit maximising energy efficiency for the system. The Connect-4 unit also permits flushing and isolating operations to be undertaken.

This version of Compact Connect-4 can be connected directly to a terminal unit copper tails with flow & return pipes in a vertical plane with the return pipe above the flow pipe.

☑ Components

4006	HERZ-Pressure Independent Balancing Control Valve (PIBCV)
2414	HERZ- Multifunctionalball valve
4000	HERZ- Orifice plate
4111	HERZ-Strainer
0284	HERZ-Test point drain valve

☑ Accessories and spare parts

1 4006 ..	HERZ-Pressure Independent Balancing Control Valve (PIBCV)
1 0284 ..	test point for HERZ-Valves
1 7708 ..	HERZ actuating drive for two-point control; either NC or NO
1 7711 ..	HERZ actuating drive for two-point or pulse control; either NC or NO
1 7990 ..	HERZ actuating drive for continuous control; NC
2 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.

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.

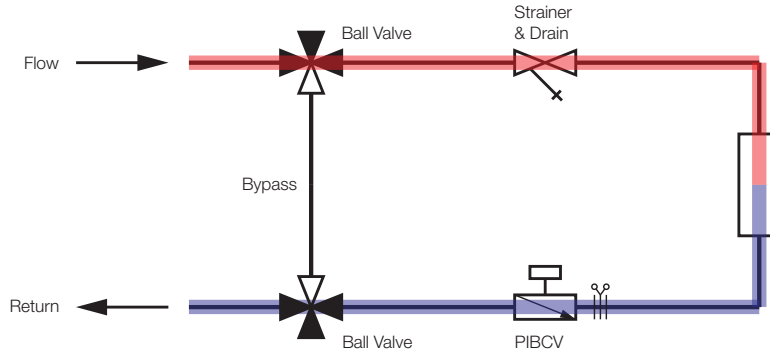
☑ Pre-setting

The valve setting is clearly shown in percent. The preset value can be easily adjusted. The preset PIBCV can be isolated at any time or adjusted to the required flow rate.

Operations

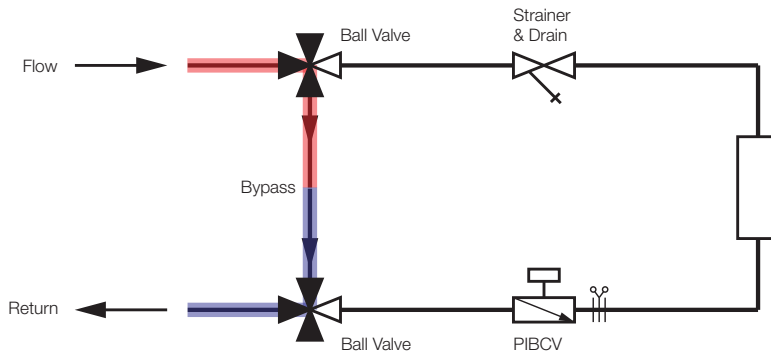
Normal operation

For normal operation the Bypass is closed, Drain Valve is closed, Ball valves are in the position as showed in the scheme, PIBCV preset to flow rate.



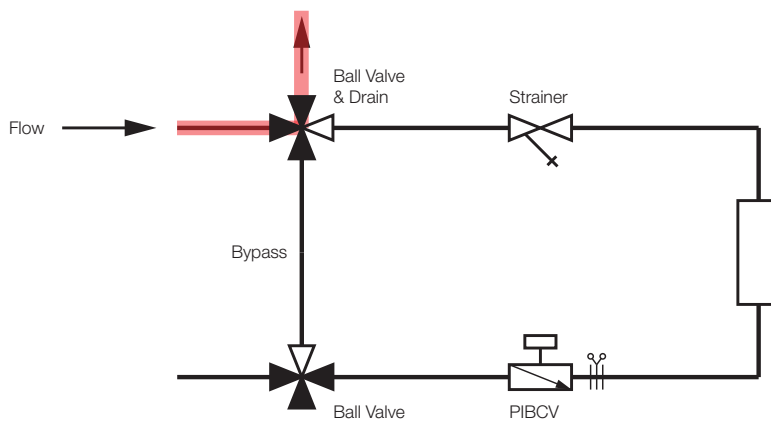
Bypass Operation

For the normal flushing method the Bypass is open, PIBCV is closed, Drain Valve closed, Ball valves are in the position as showed in the scheme.



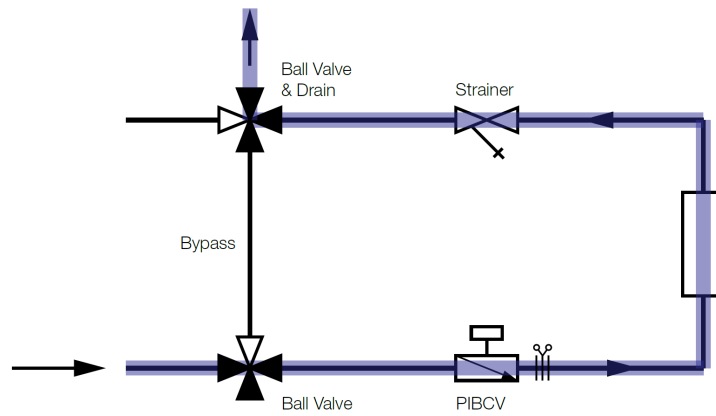
Forward Flush Operation

For forward flushing operation the Bypass is closed, Drain Valve is open, Ball valves are in the position as showed in the scheme and flushing through the Drain valve to atmosphere.



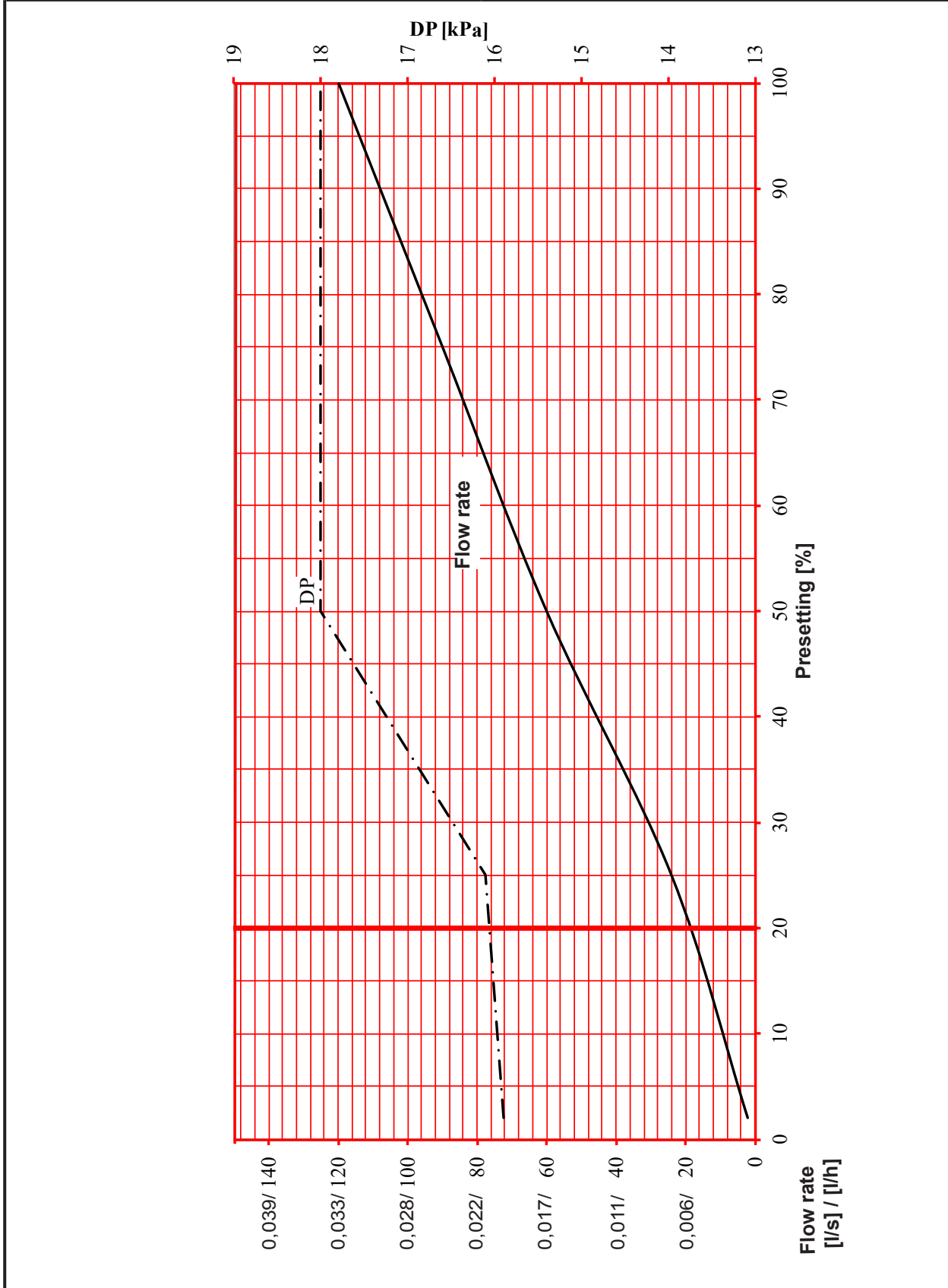
Backflush Operation

For Backflush operation the Bypass is closed, Drain Valve is open, Ball valves are in the position as showed in the scheme and PIBCV is open. Flushing through Ball valve, PIBCV, FCU, strainer and drain valve to atmosphere. During backflush operation remove the mesh from the strainer.

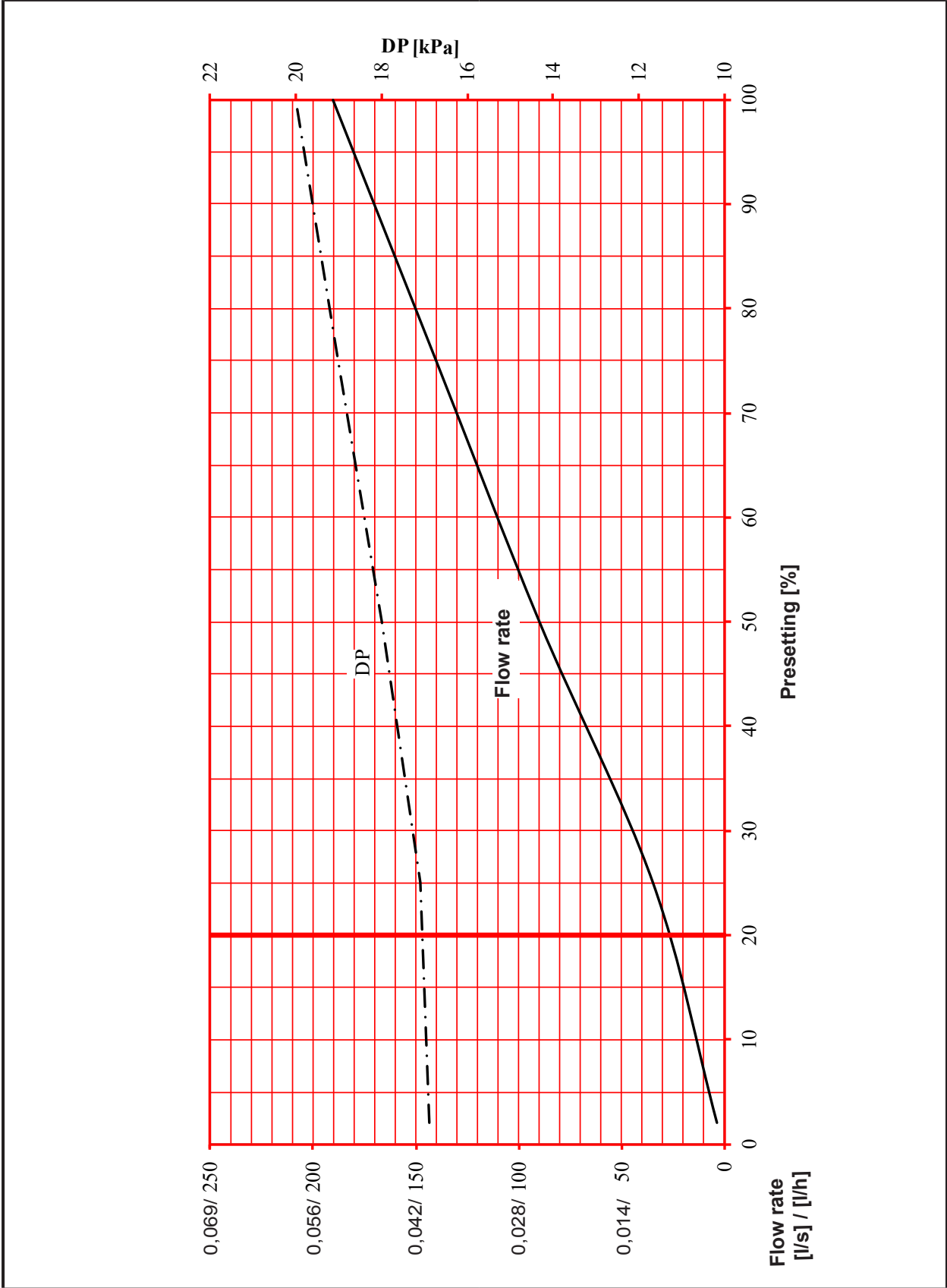


Please note: All diagrams are indicative in nature and do not claim to be complete. All specifications and statements within this document are according to information available at the time of printing and meant for informational purpose only. Herz Armaturen reserves the right to modify and change products as well as its technical specifications and/or its functioning according to technological progress and requirements. It is understood that all images of Herz products are symbolic representations and therefore may visually differ from the actual product. Colours may differ due to printing technology used. In case of any further questions don't hesitate to contact your closest HERZ Branch-office.

HERZ standard diagram	1 4700 38 / 30
DN 15 ULF / DN 15 LF	1 4700 28 / 20



HERZ standard diagram	1 4700 39
DN 15 MF	1 4700 29



HERZ standard diagram	1 4700 31
DN 15	1 4700 21

