FRS

District heating valve

2-way valve for district heating, primarily developed to replace the well-known STL-valves.

- **Replacement valve for STL-valves**
- **Sizing DN20...DN65**
- **Tight close-off, (PTFE-sealing)**
- **Pressure rating PN16**
- **Media temperature -5...+150°C**
- **Kv value 1.6...25**
- **Max. diff. pressure 1.6 MPa**

Regin's new FRS-valves are constructed to regulate hot and cold water together with NV…-actuators. There are also adapters that allow the valves to be used with other actuator brands.

The valves are available in DIN-standard lengths.

Models

Model	Connection	Kv
FRS20-1.6	DN20	1.6
FRS20-2.5	DN20	2.5
FRS20-4.0	DN20	4.0
FRS25-1.6	DN25	1.6
FRS25-2.5	DN25	2.5
FRS25-4.0	DN25	4.0
FRS32-1.6	DN32	1.6
FRS32-2.5	DN32	2.5
FRS32-4.0	DN32	4.0
FRS40-1.6	DN40	1.6
FRS40-2.5	DN40	2.5
FRS40-4.0	DN40	4.0
FRS50-6.3	DN50	6.3
FRS50-10	DN50	10
FRS50-16	DN50	16
FRS50-20	DN50	20
FRS65-6.3	DN65	6.3
FRS65-10	DN65	10
FRS65-16	DN65	16
FRS65-20	DN65	20

Force

For FRS50-10, FRS50-16, FRS50-20, FRS65-10, FRS65-16 and FRS65-20, the following force is required:

At differential pressure	Force
6 bar	570 N
8 bar	755 N
10 bar	944 N
12 bar	1133 N
14 bar	1322 N
16 bar	1511 N

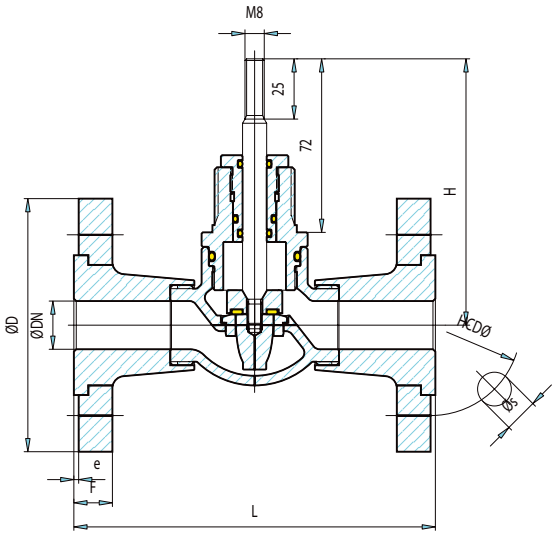
Technical data

Pressure rating	PN16
Flow characteristic	Equal percent
Max. diff. pressure	1.6 MPa
Stroke	20 mm
Temperature range	-5...+150°C
Media	Hot, cold and glycol-mixed water or steam
Connection	Flanges according to ISO 7005-2
Rangeability	100:1
Max. leakage	0.0% of Kv (PTFE-sealing)

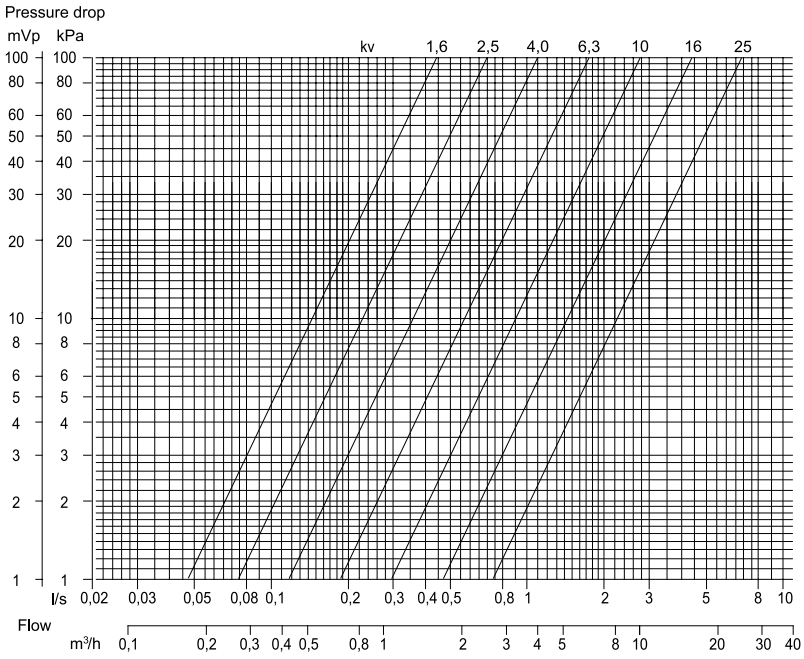
Material

Body	Bronze SS5204
Disc, stem and seat	Stainless steal
Cone sealing	PTFE
Flange	Epoxy-painted steel
Flange-hub	Epoxy-painted steel (DN20-40) Gunmetal LG2 SS5204 (DN50-65)
O-rings	Viton

Dimensions & Pressure drop diagram



DN	ØD	L	F	e	H	ØHCD	Øs (x4)
20	105	142	16	2	110	75	14
25	115	156	16	2	115	85	14
32	140	165	18	2	115	100	18
40	150	170	18	3	115	110	18
50	165	214	20	3	115	125	18
65	185	214	20	3	115	145	18



Mounting

1 The mounting surfaces should be free from dirt and rough areas.

2 The valve should be mounted so the arrow on the body is pointing in the flow direction.

3 Adjust the connection between the valve and the counter flange to minimise the tension between them.

4 Tighten the bolts cross-wise, according to fig. 1.

5 Tighten one side at a time.

6 After the valve has been tested, the bolts should be tightened again according to fig. 1.

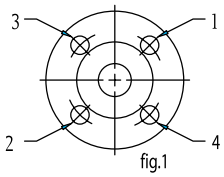
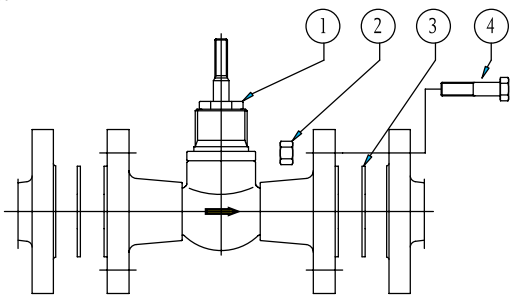


fig.1

1 Valve
2 Nut
3 Packing (fixed on new valves)
4 Bolt



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