

2-way control valve GVF 21 / GVF 22



Summary

GVF21/22 is for wide range of applications in the system of HVAC, steam and hot&cold water.

Size	200A	250A	300A	350A
Stroke(mm)	50	60	75	80

Application

• Allowable pressure: 10Kgf/cm²

• Applicable fluid and temp. : 1) up to 130°C for hot water 2) up to -25°C for cold water

Technical Data

• Allowable pressure : 10Kgf/cm²(10bar) • Applicable fluid and temp. : -25°C \sim 130°C (-25°C \sim 180°C with GVF22)

Linear type

• Leakage : ≤ 0.01% of Kvs value Class IV (ANSI B 16.104)

• End connection : GVF21 - JIS 10K RF type GVF22 - JIS 21K RF type

 $\ensuremath{\,\times\,}$ FCD of body material is available upon the request of customer

* Close-off pressure

Model	DN		Flow coefficient		Stroke	Sv	Actuator ⊿Pmax (kgf/cm²)			
Model	mm	Inch	Kv	Cv	mm	SV	GEA-100A(P)	GEA-250A(P)		
GVF 21 · 200	200	8"	594	696	50	50	2.4	6.1		
GVF 21 · 250	250	10"	906	1057	60	50	1.6	3.9		
GVF 21 · 300	300	12"	1608	1875	75	50	_	2,7		
GVF 21 · 350	350	14"	2509	2928	80	50	_	2.0		

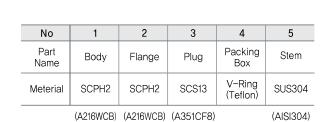
: Rangeability (VDI 2173)

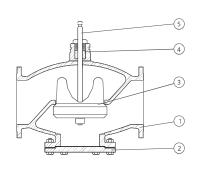
Kv = Cv/1.167

 $\Delta PV100$: Maximum allowable pressure difference of valve faces in full opening position with installation highly loaded $\Delta Pmax$: Maximum allowable pressure difference of actuator not to leak fluid in closing position(close-off pressure)

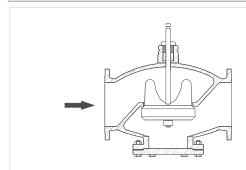
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Materials



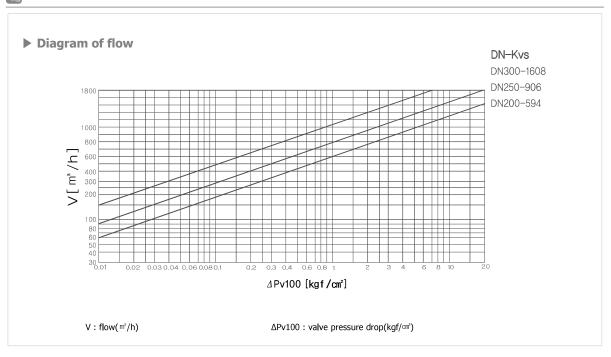


Mechanical Design



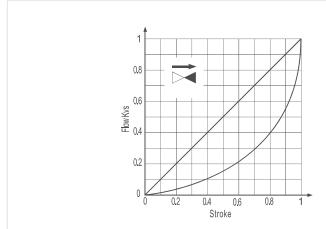
- Plug direct-coupled with valve stem
- Seat with special material attached to valve body

Walve to select



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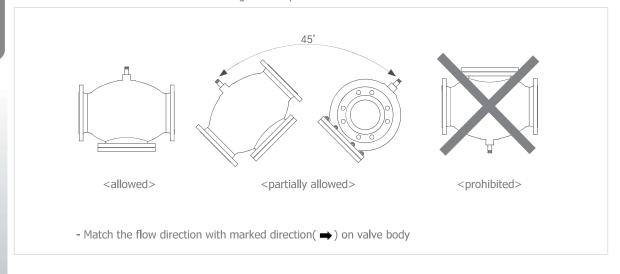
Valve flows



- Flow control of valve
- Linear or EQ%
- Proportion of flow control 50:1

Mounting Notes

- Recommend to install circulating line to protect valve stem normally
- Strainer installation recommended for higher safety rate of valve function



Guide for inspection

Inspect the valve in the status of right mounting of actuator

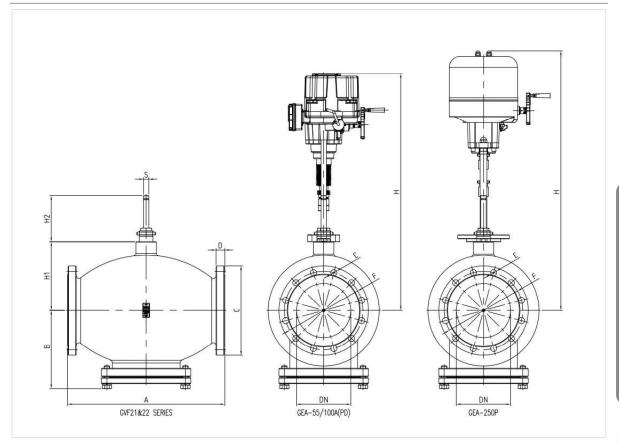
- 1. Close position with valve shaft upward
- 2. Open position with valve shaft downward

Tips

- Valve packing replacement without disassembling in case of damage
- Packing box applicable for -25 ~ 130°C(hot and cold water)

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Shape dimension



JIS 10K RF, KS 10K RF (KS B 1511)

MODEL	DN	_	_		D	E	_	В	Н1	H2	Н		Weight
MODEL	DN	Α	C	3	D	E	F	ь	н		GEA-100	GEA-250	Valve(Kg)
GVF 21.200	200	580	ø330	ø20	32	ø290	12-ø23	287	255	170	875	869	165
GVF 21.250	250	685	ø400	ø20	32	ø355	12-ø25	346	305	180	925	919	280
GVF 21.300	300	800	ø445	ø20	34	ø400	16-ø25	376	300	195	-	914	368
GVF 21.350	350	880	ø490	ø20	34	ø445	16-ø25	398	325	200		939	430

JIS 20K RF, KS 20K RF

MODEL	MODEL DN A			_	_		_	_	114	H2	Н		Weight
MODEL	DN	Α	C	3	D	E	Г	В	H1		GEA-100	GEA-250	Valve(Kg)
GVF 22.200	200	580	ø350	ø20	34	ø305	12-ø25	287	255	170	875	-	182
GVF 22.250	250	685	ø430	ø20	34	ø380	12-ø27	346	305	180	925	919	305
GVF 22.300	300	800	ø480	ø20	40	ø430	16-ø27	376	300	195	-	914	388
GVF 22.350	350	880	ø540	ø20	42	ø480	16-ø33	398	325	200	124	939	450

Units: mm

Specifications to be changed upon the production environment

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