

3-WAY CONTROL VALVE

(GXF21/22)



Description

"GXF21/22" series of 2-way control Valve is intended to adopt in a wide ranges of applications, air handling unit, steam and hot water systems.

NO	200	250	300	350
Stroke(mm)	50	65	75	80

Technical Data

- Operating pressure : 10Kgf/cm² (GVF21) , 20Kgf/cm²(GVF22)
- Operating temp : - 25 ~ 130°C (GVF21) , -25~180°C (GVF22)
- Valve curve : Linear
- Leakage rate : ≤0.01% of Kvs value Class IV(ANSI B 16 104)
- Connection : JIS 10K RF (GVF21) , JIS 20K RF (GVF22)

※ Close-off pressure

Model	DN		Flow		Stroke mm	Sv	Actuator ΔPmax(Kgf/cm ²)	
	mm	Inch	Kvs	Cv			GEA-100A(P)	GEA-250A(P)
GVF21.200	200	8"	594	696	50	50	2.4	6.1
GVF21.250	250	10"	906	1057	65	50	1.6	3.9
GVF21.300	300	12"	1608	1875	75	50	-	2.7
GVF21.350	350	142"	2506	2928	80	50	-	2.0

Sv : Range ability (VDI 2173)

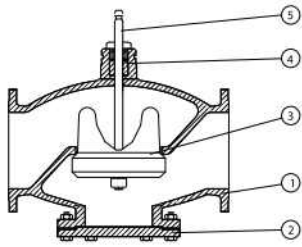
* Kv=Cv/1.167

ΔPv100 = difference pressure across fully open valve in installation with full load

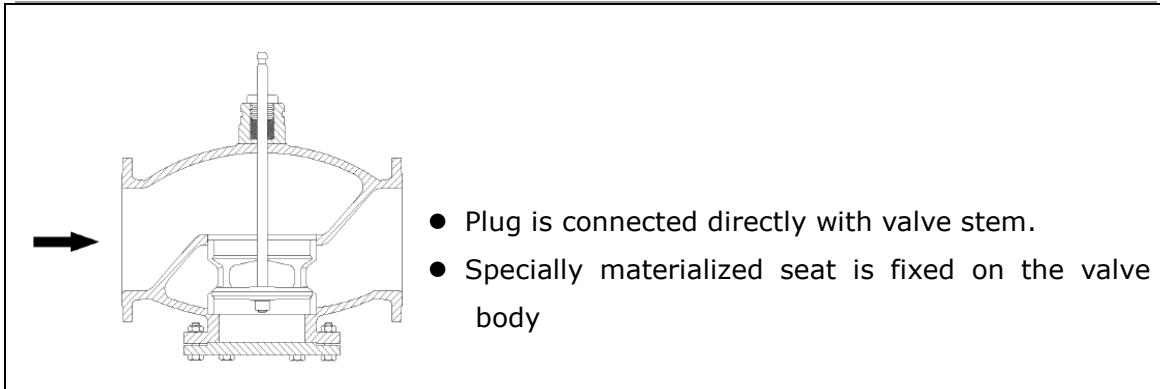
ΔPvmax in kgf/cm² = max, permissible differential pressure across closed valve

Material

No.	1	2	3	4	5
Part Name	Body	Flange	Plug	Packing Box	Stem
Material	SCPH2	SCPH2	SCS13	V-Ring (Teflon)	SUS304

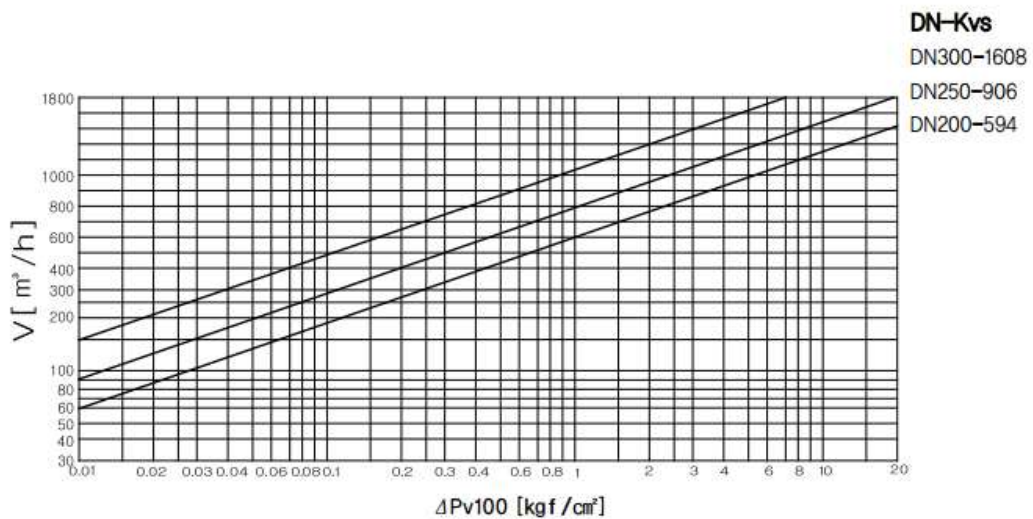


Mechanical Data



Valve Sizing Chart

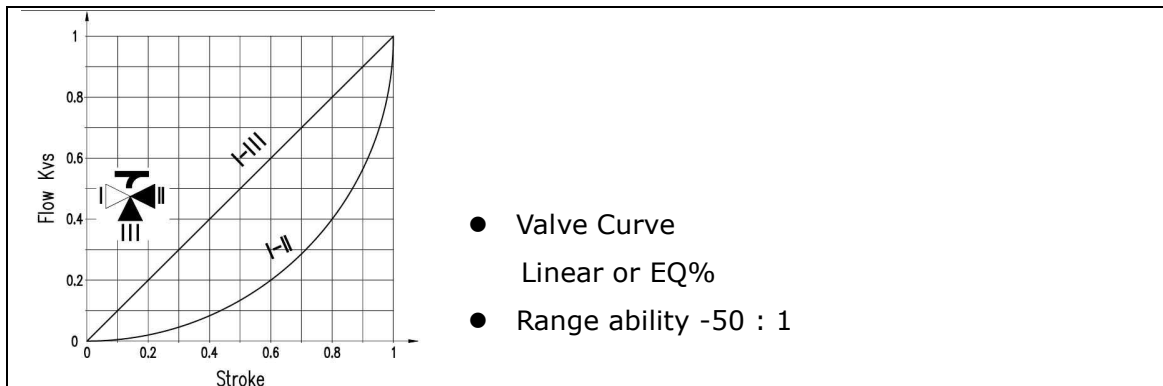
FLOW DAGRAM



V : WATER FLOW (m³/h)

ΔP_v : VALVE PRESSURE DROP(Kgf/cm²)

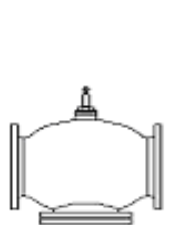
Characteristic of Valve's Flow



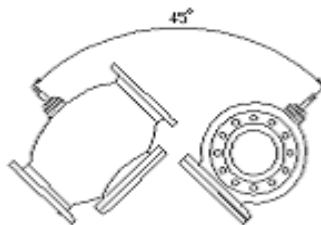
Mounting Notes

- Valve and Actuator can be supplied with assembled or separately.
- Generally, it's preferred to install the valve at returning line for protecting The valve's stem.
- Installing the strainer may better for safety of valve function.

- Mounting positions



<permitted>



<minimum allowed condition>



<not permitted>

- The valve should be installed in a same direction of the Fluid flow.

Guidelines For an Examination Of Water (Steam)

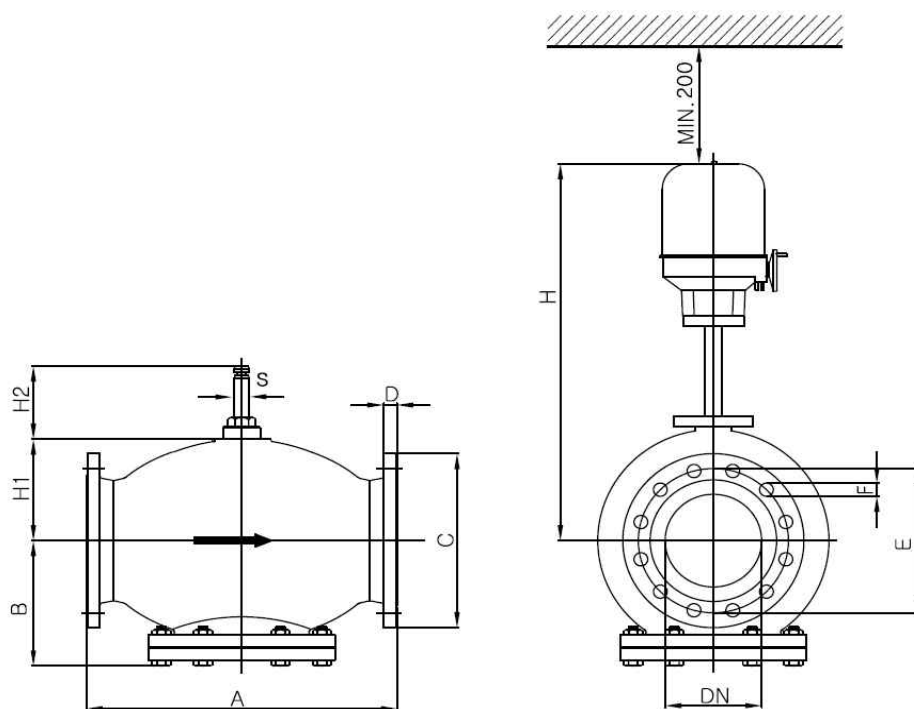
Trial running should be done after checking the actuator is mounted on the valve correctly.

1. Downward of spindle: Valve Open
2. Upward valve spindle: Valve Close

Check

- In case of damaging of the valve's packing, There is no need disassembling the valve and actuator for replacement.
- Packing box can be used for -25~+130°C of Fluids.(Cold, Chilled, Hot water & Steam)

Dimension



JIS 10K RF, KS 10K RF

Model	DN	A	C	S	D	E	F	B	H2	H1	H	Weight Valve(Kg)
											GEA-100,250	
GVF21·200	200	580	330	20	26	290	23X12	280	115	220	1120	165
GVF21·250	250	680	400	20	30	355	25X12	350	135	240	1160	280
GVF21·300	300	800	445	20	32	400	25X16	383	170	260	1180	368
GVF21.350	350	880	490	20	34	445	25X16	410	190	280	1250	430

JIS 20K RF, KS 20K RF

Model	DN	A	C	S	D	E	F	B	H2	H1	H	Weight Valve(Kg)
											GEA-100,250	
GVF22·200	200	580	350	20	34	305	25x12	288	115	225	1200	182
GVF22·250	250	680	430	20	38	380	27x12	358	170	245	1240	305
GVF22·300	300	800	480	20	40	430	27x16	391	170	265	1340	388