

## 2-WAY STAINLESS VALVE (SUS316)

MODEL: GVF-S



### » Description

GVF-S 2-way Stainless Valve is Austenitic Stainless Control Valve as Flange connection type of 2-way globe valve which is designed to use for the manufacturing facilities such as Paper, Dye stuffs, Chemical Fabrics and Fertilizer, and for the facilities of Food Industries and Seashore facilities in associated with GEA-PD(Digital Electric Actuators) series.

- ▶ Nominal Stroke
  - DN 15 ~ DN 50: 20 mm
  - DN 65 ~ DN150: 40 mm
  - DN 200, DN250 : 60 mm

### » Technical Data

- ▶ Operating Pressure : JIS 10 Kgf/cm<sup>2</sup>
- ▶ Operating Temperature : at -20 ~ 150 °C, DIN4747 / DIN3158
- ▶ Valve Curve Characteristic : Linear
- ▶ Leakage Rate : ≤0.01% of Kvs value Class IV (ANSI B 16.104)
- ▶ Connecting Flange : JIS 10K RF (JIS B2220)

\*Close-off pressure

Model	DN mm	flow coefficient		Stroke mm	Sv	ΔPv	Actuator ΔPmax(Kgf/cm <sup>2</sup> )				
		Kvs	Cv				GEA 20A(PD)	GEA 35A(PD)	GEA 55A(P)	GEA 100A(P)	GEA 250A(P)
GVF-S 15	15	3.1	3.6	20	50	10	10	-	-	-	-
GVF-S 20	20	5.6	6.5	20	50	10	10	-	-	-	-
GVF-S 25	25	10.6	12.4	20	50	10	10	-	-	-	-
GVF-S 40	40	25.4	29.6	20	50	10	10	-	-	-	-
GVF-S 50	50	38.8	45.3	20	50	10	8	-	-	-	-
GVF-S 65	65	64.2	74.9	40	50	5	-	8.1	-	-	-
GVF-S 80	80	90.5	105.6	40	50	4	-	5.4	-	-	-
GVF-S100	100	130.2	151.9	40	50	4	-	3.4	-	-	-
GVF-S125	125	188.0	219.4	40	50	4	-	-	3.4	-	-
GVF-S150	150	283.0	330.3	40	50	3.5	-	-	2.4	-	-
GVF-S200	200	594.0	696.0	60	50	3	-	-	-	2.4	6.1
GVF-S250	250	906.0	1057	60	50	3	-	-	-	-	3.9

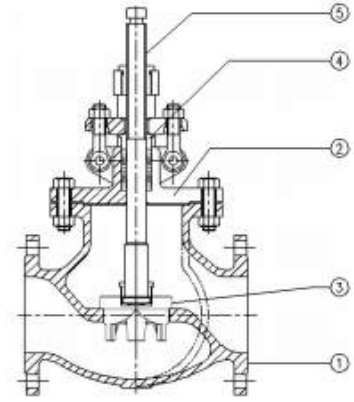
Sv : Range ability (VDI 2173)

ΔPv : Differential Pressure across fully open valve on installing with full load

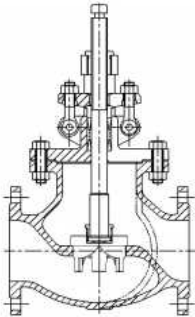
ΔPmax : Max Permissible differential pressure across closed valve

» Materials

NO	1	2	3	4	5
Part Name	Body	Bonnet	DISC	GLAND PACKING (GASKET )	STEM
Material	SCS14 (CF8M) SUS316	SCS14 (CF8M) SUS316	SCS14 (316)	PTFE	SCS14 (316)



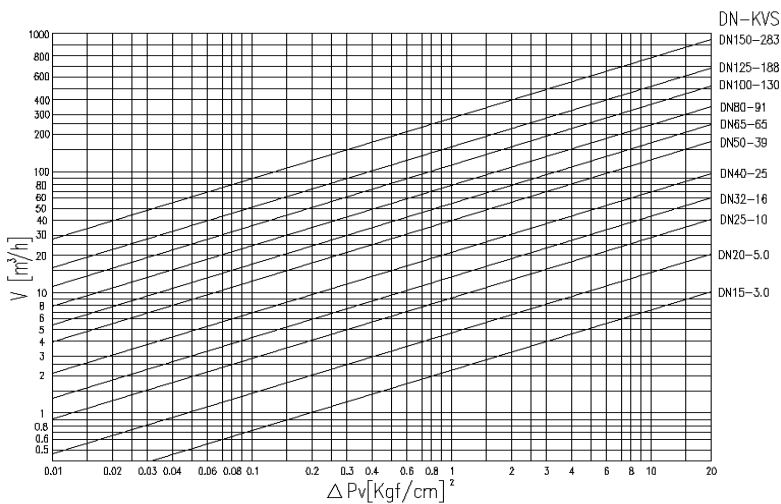
» Mechanical Design



- ▶ Plug is directly connected to the Valve stem.
- ▶ Seat (made of SUS316) is fixed on Valve body

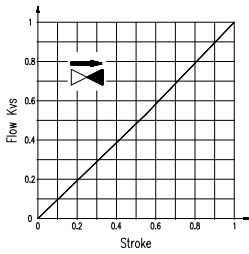
» Valve Selection

▶ Flow Diagram



V : Flow (m<sup>3</sup>/h)  
 ΔPv : Differential Pressure (Kgf/cm<sup>2</sup>) on 100% Valve open condition

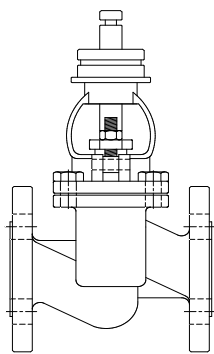
## » Characteristic of Valve's Flow



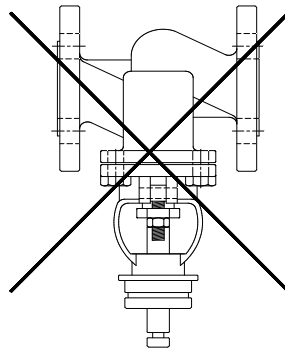
- ▶ Valve Curve : Linear
- ▶ Range ability - 50:1

## » Mounting Notes

- ▶ To maximize the functional safety of Valve, setting the Strainer is suggested.



<Permitted>



<not Permitted>

- ▶ The direction of Flow should be accorded with the direction sign of Valve.

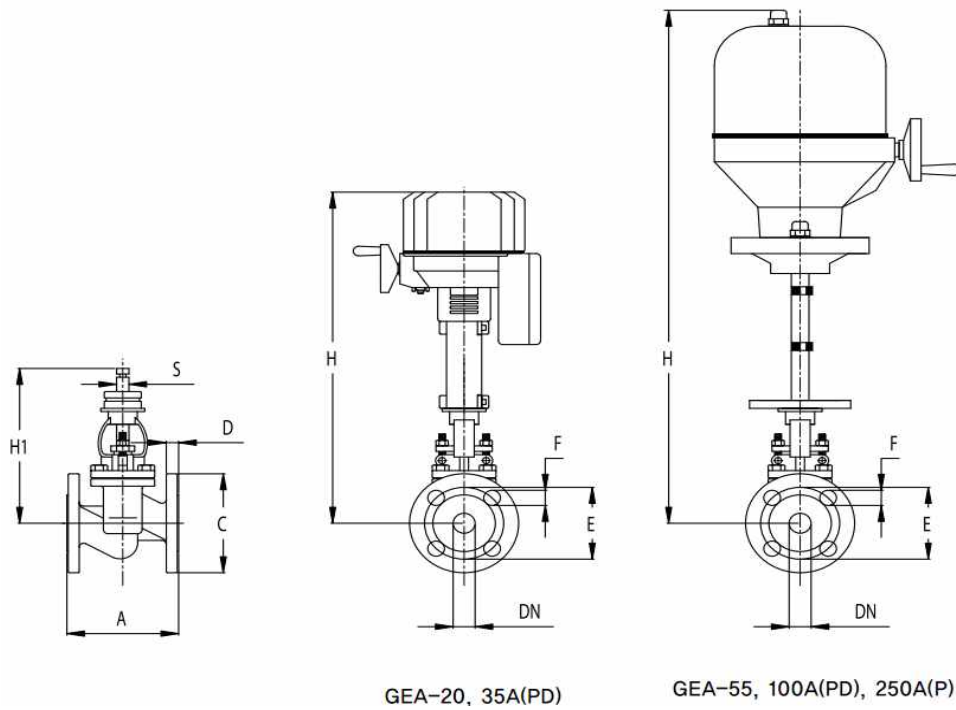
## » Guidelines for An Examination

- ▶ Trial Test should be conducted only when actuator is mounted on the Valve correctly
  1. Upward position of Spindle : Valve Open
  2. Downward position of 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  $-25\sim+130^{\circ}\text{C}$  of Fluids.(Cold, Chilled and Hot water )

» Dimension



Model	DN	A	C	S	D	E	F	Bolt Size	H1	H					Weight Valve(Kg )
										GEA -20	GEA -35	GEA -55	GEA -100	GEA -250	
GVF-S 15	15	108	95	12	12	70	15×4	M12	168	430	-	-	-	-	3.0
GVF-S 20	20	117	100	14	14	75	15×4	M12	175	438	-	-	-	-	3.6
GVF-S 25	25	127	125	14	14	90	19×4	M16	190	450	-	-	-	-	4.8
GVF-S 40	40	161	140	16	16	105	19×4	M16	200	460	-	-	-	-	8.0
GVF-S 50	50	201	155	16	16	120	19×4	M16	230	485	-	-	-	-	10.2
GVF-S 65	65	212	175	18	18	140	19×4	M16	243	-	540	-	-	-	13.5
GVF-S 80	80	241	185	18	18	150	19×8	M16	286	-	570	-	-	-	18.3
GVF-S100	100	292	210	18	18	175	19×8	M16	325	-	580	-	-	-	25.9
GVF-S125	125	356	250	20	20	210	23×8	M20	380	-	-	880	-	-	43.5
GVF-S150	150	406	280	22	22	240	23×8	M20	445	-	-	900	-	-	57.4
GVF-S200	200	495	330	22	22	290	23×12	M20	545	-	-	-	1020	-	170
GVF-S250	250	622	400	20	24	355	25×12	M22	650	-	-	-	-	1050	250