2/2-way ELEMENT Angle Seat Control Valve with positioner or process controller, flange version

- High control accuracy
- Stainless steel IP65 protection and 67
- Easy to install

The fully integrated system with control valve, Type 2301, and automation unit, Type 8692 or Type 8693, is characterized by compact and smooth design, integrated air channels, IP65/67/NEMA 4X protection class and a high chemical resistance.

Technical Data

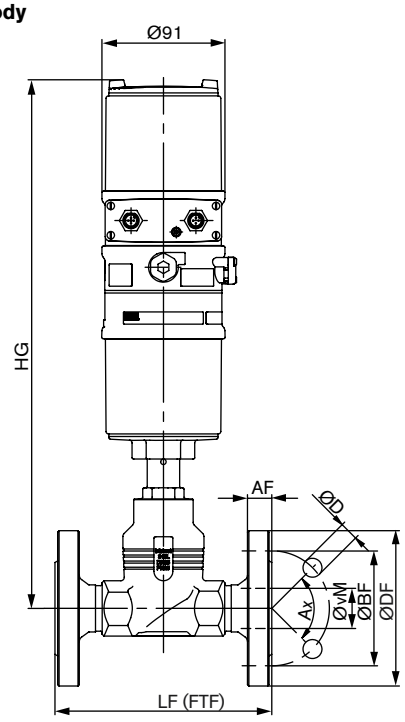
Orifice (seat orifice)	DN10 to 50 (DN4 to 50)
Port connection Flange conn. acc. to Welded and threaded connection	 DIN EN 1092-1 see separate Datasheet
Body material	Cast stainless steel 316L
Actuator material Actuator Case	 PPS Stainless steel 1.4561 (316Ti)
Plug seal	PTFE/Steel (PTFE/stainless steel) and Steel/steel (Stainless steel/stainless steel)
Seat leakage acc. to . IEC 534-4/EN 1349	Shut-off class III and IV for steel/steel. Shut-off class VI for PTFE/steel (see details in ordering chart)
Medium	Neutral gases, water, alcohol, oil, fuels, hydraulic fluid, salt solutions, alkalis, organic solvents, steam
Viscosity	max. 600 mm^2/s
Packing spindle	PTFE seal with spring compensation
Mediums temperature	-10 °C to +185 °C (max. +130 °C for sealing PTFE/steel)
Ambient temperature	0 °C to +55 °C (in conjunction with positioners - respectively process controllers) 0 °C to +80 °C (remote version)
Control medium	Compressed air
Required pilot pressure for control function A	Orifice DN10 to 50 | 5.5 to 7 bar Orifice DN65 to 100 | 5.6 to 7 bar
Operating voltage	24 VDC ±10%
Setpoint	0/4 to 20 mA and 0 to 5/10 V
Installation	As required, preferably with actuator upright

Note: For more technical data, see Type 8692 or Type 8693

Envelope Dimensions [mm] (see datasheet for details)

Continuous ELEMENT valve system,
Type 8802 GD-I and 8802 GD-J

Flange body

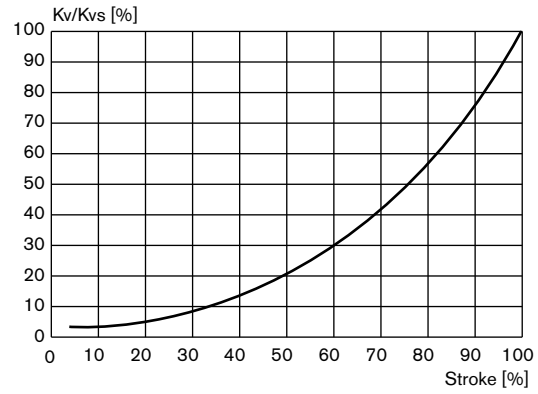


Orifice	Actuator size		DIN EN 1092 FTF acc. to EN558 Series 1					
[mm]	[mm]	HG	ØDF	LF	ØBF	AF	ØD	ØM
10	70	383	90	130	60	16	14	13.6
15	70	383	95	130	65	16	14	18.1
20	70	389	105	150	75	18	14	23.7
25	70	392	115	160	85	18	14	29.7
	90	445	115	160	85	18	14	29.7
32	90	473	140	180	100	18	18	38.4
	130	525	140	180	100	18	18	38.4
40	90	478	150	200	110	18	18	44.3
	130	530	150	200	110	18	18	44.3
50	90	484	165	230	125	20	18	56.3
	130	536	165	230	125	20	18	56.3

Ordering chart

Control function	Orifice [mm]	Port connection thread	Actuator size Ø [mm]	Kv value water [m³/h]	Pressure range to +185 °C [bar]	Item no. 8802-GD-I with positioner 8692 Steel/Steel	Item no. 8802-GD-J with positioner and Process controller 8693 Steel/Steel	Item no. 8802-GD-I with positioner 8692 Steel/PTFE	Item no. 8802-GD-J with positioner and Process controller 8693 Steel/PTFE
8802 GD-I and 8802 GD-J									
A 2/2-way valve normally closed (NC)	15	Flange DIN EN 1092-1	70	4.3	16	225 353	232 010	229 667	232 217
	20	Flange DIN EN 1092-1	70	7.1	16	219 164	229 461	232 262	232 342
	25	Flange DIN EN 1092-1	90	12	16	229 422	229 462	266 884	–
	32	Flange DIN EN 1092-1	90	13.6	16	219 166	229 464	236 168	276 578
	40	Flange DIN EN 1092-1	130	23.8	16	229 423	229 465	260 905	277 569
	50	Flange DIN EN 1092-1	130	37	16	229 424	229 467	232 750	238 259

Flow curve and description



For detailed values please see table on next page

Remarks on the flow characteristic

- Equipercentile parabolic plug for the orifices DN8 to DN50
- Linear plug for the orifices DN4 and DN6
- Flow characteristic runs within DIN/IEC 534-2-4
- Theoretical control ratio (Kvs/Kvo):
  50:1 for the orifices DN8 to DN50
  25:1 for the orifice DN6
  10:1 for the orifice DN4
- KVR value at 5% of stroke for DN > 10 mm
  KVR value at 10% of stroke for DN ≤ 10 mm

(KVR value = smallest Kv value at which the gradient tolerance to DIN/IEC 534-2-4 is still complied with)