



Type 3233 GP can be combined with...



Type 2031 GP

Version with
pneumatic actuator



Type 8034

Flow meter

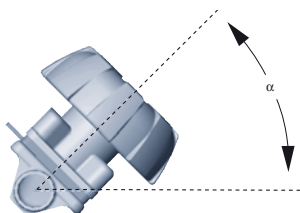
The manually-operated diaphragm valve in compact form of the Type 3233 GP consists of a flow-optimised stainless steel body with various surface finishes, a diaphragm and a manual actuator.

The diaphragm is both a switch element and a sealing element to the outside. It can be easily replaced. The flow can be continually adjusted with the handwheel.

The valves have no dead volume and can be mounted to be self-draining. This enables high flow capacities and a variety of applications to be realised.

Installation for self-draining operation

$\alpha = 15^\circ$ up to 30° plus 3° to 5° inclination to the pipe axis.



2-way Diaphragm Valve, stainless steel body, manually operated, DN 8-50

- Cold-formed pipe valve body
- Hermetical separation of fluids from the operating mechanism by diaphragm
- Zero dead volume
- Various surface finishes
- With self-draining operation

Technical data

Orifice	DN 8 - 50
Body material Cold-formed pipe valve body	Stainless steel 1.4404, 316L
Actuator materials Hand wheel and bonnet DN 8-50 DN 65-100	PPS or stainless steel Grey cast iron, white epoxy coated
Seal material	EPDM, PTFE/EPDM (FKM on request)
Media	Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids
Viscosity	Up to viscous
Surface quality	Glass-beaded (1.6 μm)
Media temperature	-10 to +130 °C Briefly up to +150 °C for steam sterilisation
Ambient temperature	Up to +130 °C, briefly up to +150 °C
Port connections ▪ Threaded ports ▪ Welded acc. to ▪ Flanged acc. to	G 1/4 to G2 EN ISO 1127/ISO 4200 or DIN 11850 Series 2 DIN EN 1092-1
Installation	As required, preferably with actuator in upright position
Installation for self-draining mounting	Tilted 15 to 30° to the horizontal and inclined 3 to 5° to the direction of flow (see drawing)
Options	Locking function

Technical data, continued

Kv values and weight

Orifice [mm]	Kv value water [m ³ /h]	Kv value water port connection DIN 11850 S2 [m ³ /h]	Max. operating pressure [bar]	Weight [kg]	
				Welded [kg]	Flanged [kg]
8/10	1.0	1.0	10	0.26	–
15	6.5	4.0	10	0.6	2.0
20	12.0	4.5	10	1.0	2.8
25	18.0	12.5	10	1.1	3.2
32	33.0	17.0	10	3.2	6.3
40	45.0	24.5	10	4.0	7.4
50	56.0	35.0	7/10 ¹⁾	4.8	9.5

¹⁾ see ordering chart p. 3

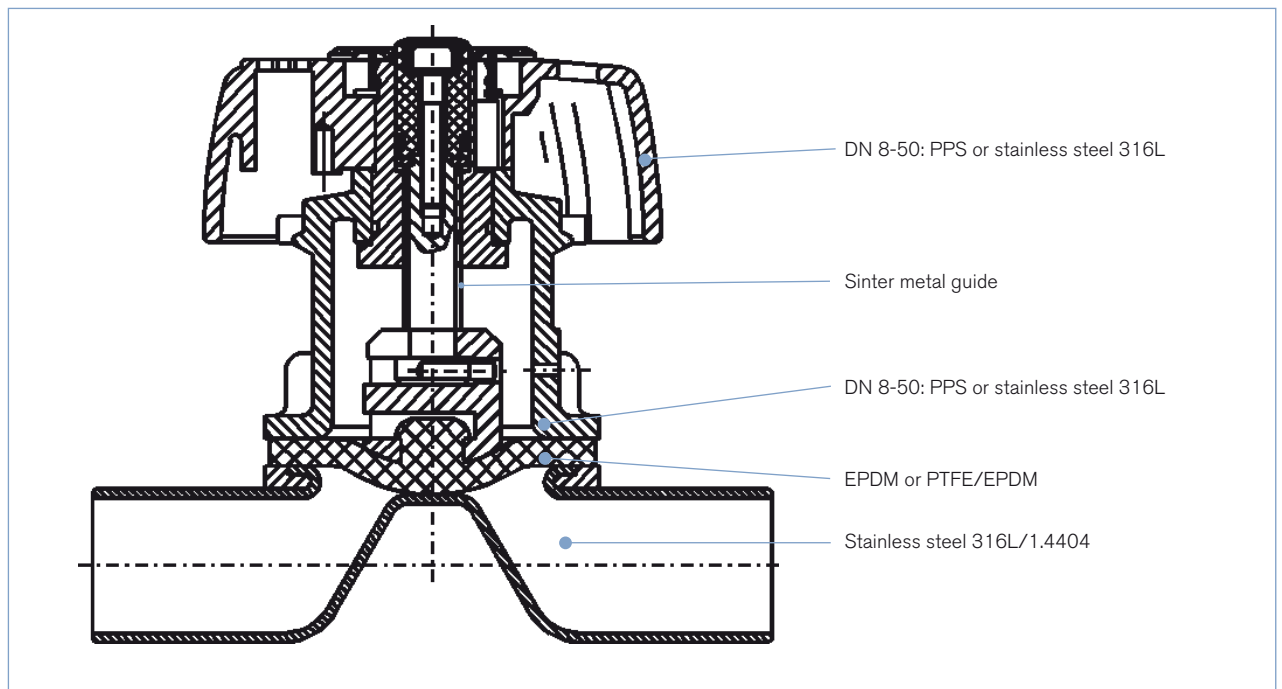
Flow rate: Kv value water [m³/h]

Measured at +20°C, 1 bar pressure at valve inlet and free outlet.

Pressure values [bar]

Gauge pressures with respect to the prevailing atmospheric pressure.

Materials



Approvals

Suitable for foodstuffs/sterile applications



The composition of the EPDM and PTFE/EPDM diaphragms corresponds to the *Code of Federal Regulations*, published by the *FDA* (Food and Drug Administration, USA).

Ordering chart for valves (other versions on request)

Welded body according to EN ISO 1127/ISO 4200 or DIN 11850 Series 2, stainless steel, cold-formed body, inside glass-beaded, different material combinations

Orifice [mm]	External Ø [mm]	Max. operating pressure [bar]	Kv value water [m ³ /h]	Handwheel/bonnet PPS/PPS		Handwheel/bonnet PPS/St. st.	
				Item no. EPDM diaphragm	Item no. PTFE/ EPDM diaphragm	Item no. EPDM diaphragm	Item no. PTFE/ EPDM diaphragm
Acc. EN ISO 1127/ISO 4200							
8	13.5	10	1.0	704 943	704 945	704 939	704 941
15	21.3	10	6.5	435 241	435 253	435 235	435 247
20	26.9	10	12.0	435 242	435 254	435 236	435 248
25	33.7	10	18.0	435 243	435 255	435 237	435 249
32	42.4	10	33.0	435 244	435 256	435 238	435 250
40	48.3	10	45.0	435 245	435 257	435 239	435 251
50	60.3	7	56.0	435 246	435 258	-	-
		10	56.0	-	-	435 240	435 252
Acc. DIN 11850 Serie 2							
10	13.0	10	1.0	704 944	704 946	704 940	704 942
15	19.0	10	4.0	435 265	435 277	435 259	435 271
20	23.0	10	4.5	435 266	435 278	435 260	435 272
25	29.0	10	12.5	435 267	435 279	435 261	435 273
32	35.0	10	17.0	435 268	435 280	435 262	435 274
40	41.0	10	24.5	435 269	435 281	435 263	435 275
50	53.0	10	35.0	435 270	435 282	435 264	435 276

 Further versions on request

 Material
Seal: FKM

Threaded body, with stainless steel, cold-formed body, inside glass-beaded, different material combinations

Orifice [mm]	Port conection threaded port	Max. operating pressure [bar]	Kv value water [m ³ /h]	Handwheel/bonnet PPS/PPS		Handwheel/bonnet PPS/St. st.	
				Item no. EPDM diaphragm	Item no. PTFE/ EPDM diaphragm	Item no. EPDM diaphragm	Item no. PTFE/ EPDM diaphragm
8	G 1/4	10	1.0	704 949	704 950	704 947	704 948
15	G 1/2	10	6.5	435 289	435 300	435 283	435 294
20	G 3/4	10	12.0	435 290	435 301	435 284	435 295
25	G 1	10	18.0	435 291	435 302	435 285	435 296
32	G 1 1/4	10	33.0	435 156	435 303	435 286	435 297
40	G 1 1/2	10	45.0	435 292	435 304	435 287	435 298
50	G 2	7	56.0	435 293	435 305	-	-
		10	56.0	-	-	435 288	435 299

 Further versions on request

 Material
Seal: FKM

Ordering chart for valves (other versions on request), continued

Flanged body according to DIN EN 1092-1, with stainless steel, cold-formed body, inside glass-beaded, different material combinations

Orifice [mm]	Port connection threaded port	Max. operating pressure [bar]	Kv value water [m ³ /h]	Handwheel/bonnet PPS/PPS		Handwheel/bonnet PPS/St. st.	
				Item no. EPDM diaphragm	Item no. PTFE/EPDM diaphragm	Item no. EPDM diaphragm	Item no. PTFE/EPDM diaphragm
Acc. DIN EN 1092-1							
15	4 x 90°	10	6.5	435 091	435 103	435 097	435 109
20	4 x 90°	10	12.0	435 092	435 104	435 098	435 110
25	4 x 90°	10	18.0	435 093	435 105	435 099	435 111
32	4 x 90°	10	33.0	435 094	435 106	435 100	435 112
40	4 x 90°	10	45.0	435 095	435 107	435 101	435 113
50	4 x 90°	7	56.0	435 096	435 108	-	-
		10	56.0	-	-	435 102	435 114

i Further versions on request

Material
Seal: FKM

Dimensions [mm]

Welded body
DN 8 and DN 10
Acc. EN ISO 1127/ISO 4200 and DIN 11850 S2

DN 15-50
Acc. EN ISO 1127/ISO 4200 and DIN 11850 S2

Flanged body
DN 15-50
Acc. DIN EN 1092-1

Threaded body
DN 8-50

Body dimensions	Welded						Threaded		Flanged						
	Orifice	EN ISO 1127/ISO 4200		DIN 11850 S2		All	EN ISO 1127/ISO 4200	DIN 11850 S2	DIN EN 1092-1						
DN	Ø D1	H1	H2	Ø D1	H1	H2	L	s	D2	s	D2	G	L1	D3	L2
8/10	35	54	59	35	54	59	90	1.6	13.5	1.5	13	G 1/4	85	-	-
15	80	87	94	80	85.5	92.5	110	1.6	21.3	1.5	19	G 1/2	102	95	130
20	80	93	104	80	87.5	94.5	119	1.6	26.9	1.5	23	G 3/4	118	105	150
25	80	97	109	80	94	105	129	2.0	33.7	1.5	29	G 1	127	115	160
32	114	115	130	80	97.5	109.5	148	2.0	42.4	1.5	35	G 1 1/4	146	140	180
40	114	120	139	114	114	128	161	2.0	48.3	1.5	41	G 1 1/2	159	150	200
50	114	135	160	114	121	140	192	2.0	60.3	1.5	53	G 2	191	165	230

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In case of special application conditions, please consult for advice.

Subject to alteration.
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