

2/2-Way; DN 8-50 mm



Advantages / Benefits

- ▶ Hermetic isolation of fluid from the atmosphere
- ▶ Higher flow than conventional diaphragm valves
- ▶ Zero dead volume
- ▶ Corrosion resistant
- ▶ Long service life even with polluted "dirty" or high viscosity fluids
- ▶ Self-draining when appropriately installed

Design

This diaphragm valve with stainless steel body is an alternative to ball valves for polluted, dirty, abrasive or high viscosity fluids.

High flow rates are attained with the 2-way unique stainless steel body.

The diaphragm between the actuator and body hermetically isolates the fluid from the actuator. The maintenance-free and robust valves can be retro-fitted with a comprehensive range of accessories for position indication, stroke limitation or hand wheel operation.

Applications

- Pollution control equipment
- Chemical processing equipment
- Cosmetic processing equipment
- Food processing equipment
- Bottling systems
- Water treatment
- Textile dyeing
- Paint Spraying equipment



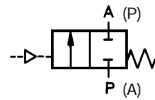
INGENIEROS ASOCIADOS DE CONTROL S.L.

Telf.: 913831390
comercial@iac-sles
bürkert
Fluid Control Systems

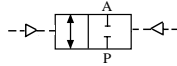
Technical Data

Control Functions

A 2/2-way valve,
normally closed by spring action.



I 2/2-way valve,
with double-acting actuator.



Specifications

Orifice [mm]	Kv-Value [m³/h]	Operating Pressure (Contr. Function A) Diaphragm		Operating Pressure (Contr. Function I) Diaphragm		Actuator Size [ø mm]	Weight [kg]
		EPDM [bar]	PTFE [bar]	EPDM [bar]	PTFE [bar]		
8	1.0	10.0	10.0	10.0	10.0	40	0.39
15	6.5	8.5	-	10.0	-	50	0.69
	7.0	10.0	10.0	-	10.0	63	1.00
20	12.0	10.0	-	10.0	-	63	1.30
	13.0	10.0	10.0	10.0	10.0	80	2.00
25	18.0	3.0	-	-	-	63	1.30
	21.0	10.0	7.5	10.0	10.0	80	2.17
32	33.0	10.0	8.0	10.0	9.5	100	3.90
40	45.0	6.5	-	10.0	-	100	4.16
	46.0	10.0	10.0	-	10.0	125	5.80
50	70.0	8.0	7.0	10.0	9.5	125	7.60

Operating Data (Valve)

Fluid temperature -10 °C up to +130 °C
depending on
diaphragm material
Sterilisation with steam +150 °C

Valve body 1.4404 stainless steel
Body surfaces: Internally Ra 1,0...Ra 2,2

Diaphragm material EPDM, PTFE

On request

- Flanged connection
- Tri-Clamp

Operating Data (Actuator)

Material PA (Threaded port version)
PPS (Weld-end version)

Ambient temperature PA -10°C up to + 60°C
PPS +5°C up to +140°C

Control pressure

Max. admissible control pressure 10 bar (PA)
7 bar (PPS)

Circuit function A (spring to close):

Min. required control pressure 3.5 bar

Circuit function I (no spring):

The following max. control
pressure is required to provide
max. operating pressure: 6 bar

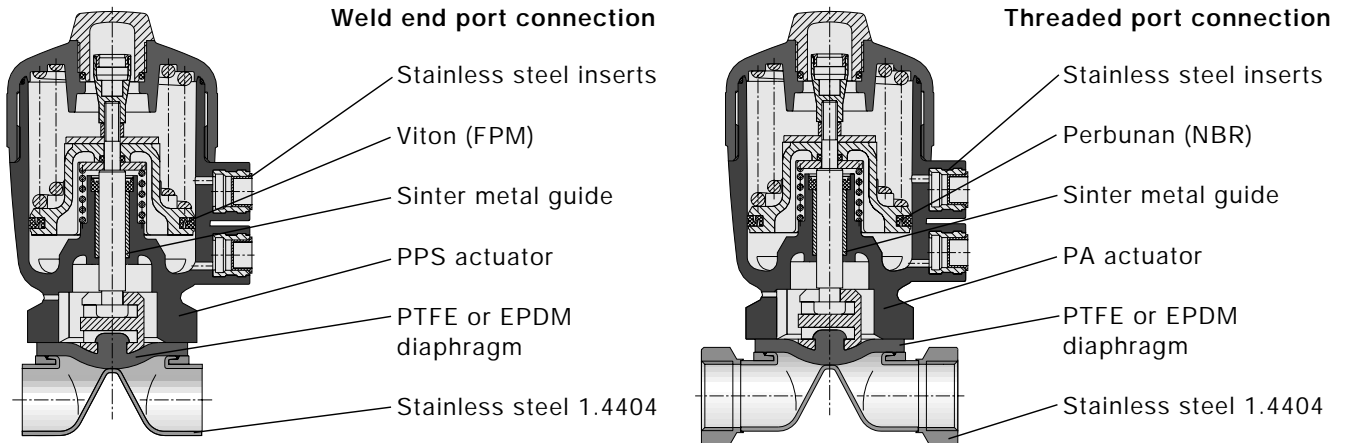
Control fluid neutral gases, air

Diaphragm valve with stainless steel body

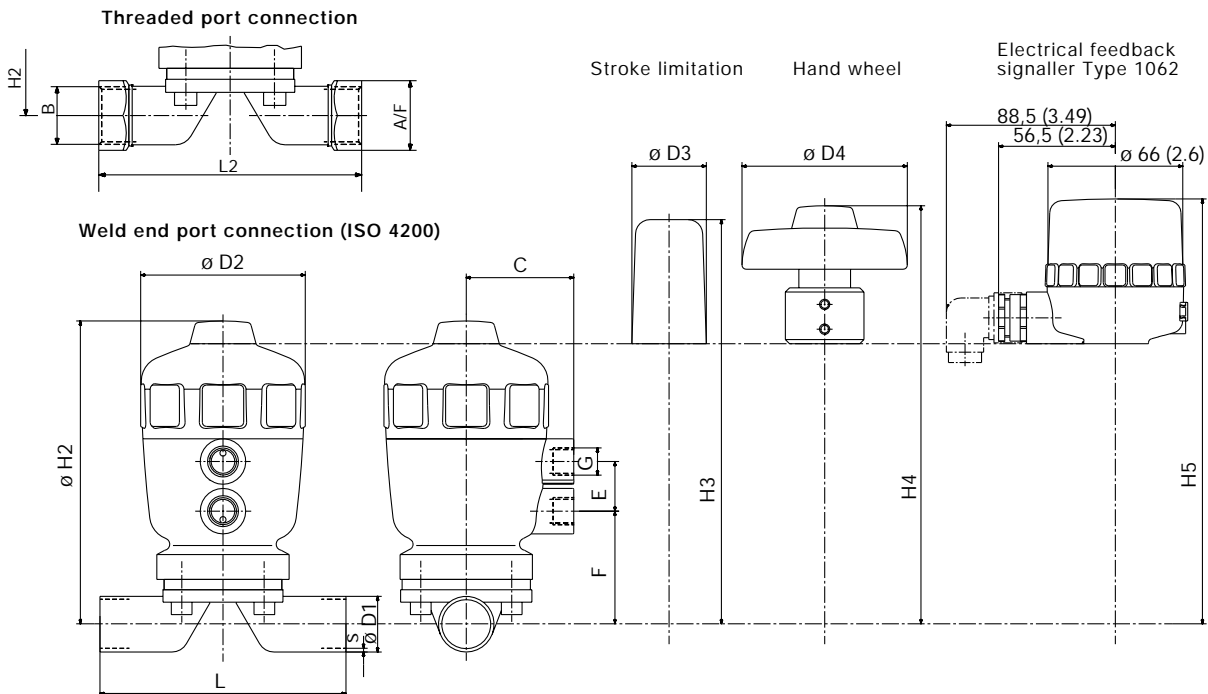
Type 2031

General Purpose

Materials



Dimensions [mm]



Orifice	Actuator	B	C	D1	ø D2	ø D3	ø D4	E	F	G	H2	H3	H4	H5	L	L2	A/F	S
[mm]	[mm]																	
8	40	G 1/4	34	13.5	53	-	-	16.5	29	G 1/8	85	-	-	-	90	85	17	1.6
15	50	G 1/2	39	21.3	64	39	80	20	44	G 1/8	122	172	178	181	110	102	27	1.6
15	63	G 1/2	52	21.3	80	39	80	24	43	G 1/4	139	189	195	198	110	102	27	1.6
20	63	G 3/4	52	26.9	80	39	80	24	54	G 1/4	146	198	204	207	119	118	32	1.6
20	80	G 3/4	60	26.9	101	39	80	24	62	G 1/4	174	224	230	233	119	118	32	1.6
25	80	G1	60	33.7	101	39	80	24	65	G 1/4	177	227	233	236	129	127	41	2.0
32	100	G11/4	73	42.4	127	53	150	24	81	G 1/4	230	303	300	286	148	146	50	2.0
40	100	G11/2	73	48.3	127	53	150	24	85	G 1/4	235	308	305	291	161	159	60	2.0
40	125	G11/2	86	48.3	153	53	150	30	93	G 1/4	274	347	344	330	161	159	60	2.0
50	125	G2	86	60.3	153	53	150	30	99	G 1/4	278	351	348	334	192	191	70	2.0

Ordering Chart (Other Versions on Request)

Control Function A, normally closed by spring, G-port connection, PA-actuator

Port connect.	Orifice [mm]	Diaphragm	Operating pressure [bar]	Actuator Size [mm]	Item-No.
G 1/4	8	EPDM	10.0	40	141 858 B
G 1/4	8	PTFE/EPDM	10.0	40	137 097 G
G 1/2	15	EPDM	8.5	50	141 569 H
G 1/2	15	EPDM	10.0	63	141 570 E
G 1/2	15	PTFE/EPDM	10.0	63	141 575 X
G 3/4	20	EPDM	10.0	63	141 578 A
G 3/4	20	EPDM	10.0	80	141 579 B
G 3/4	20	PTFE/EPDM	10.0	80	141 582 P
G1	25	EPDM	3.0	63	141 584 R
G 1	25	EPDM	10.0	80	141 585 J
G 1	25	PTFE/EPDM	7.5	80	141 588 V
G 1 1/4	32	EPDM	10.0	100	141 590 T
G 1 1/4	32	PTFE/EPDM	8.0	100	141 594 K
G 1 1/2	40	EPDM	6.5	100	141 596 M
G 1 1/2	40	EPDM	10.0	125	141 598 X
G 1 1/2	40	PTFE/EPDM	10.0	125	141 604 D
G 2	50	EPDM	8.0	125	141 608 R
G 2	50	PTFE/EPDM	7.0	125	141 613 V

Control Function A, normally closed by spring, Weld-end port connection (ISO 4200), PPS-actuator

Port connect.	Orifice [mm]	Diaphragm	Operating pressure [bar]	Actuator Size [mm]	Item-No.
Weld end	8	EPDM	10.0	40	135 442 L
Weld end	8	PTFE/EPDM	10.0	40	135 446 Q
Weld end	15	EPDM	8.5	50	135 459 V
Weld end	15	EPDM	10.0	63	134 305 S
Weld end	15	PTFE/EPDM	10.0	63	134 311 P
Weld end	20	EPDM	10.0	63	135 481 C
Weld end	20	EPDM	10.0	80	134 306 T
Weld end	20	PTFE/EPDM	10.0	80	134 312 Q
Weld end	25	EPDM	3.0	63	135 503 J
Weld end	25	EPDM	10.0	80	134 307 U
Weld end	25	PTFE/EPDM	7.5	80	134 313 R
Weld end	32	EPDM	10.0	100	134 308 D
Weld end	32	PTFE/EPDM	8.0	100	134 314 J
Weld end	40	EPDM	6.5	100	135 548 W
Weld end	40	EPDM	10.0	125	134 309 E
Weld end	40	PTFE/EPDM	10.0	125	134 315 K
Weld end	50	EPDM	8.0	125	134 310 S
Weld end	50	PTFE/EPDM	7.0	125	134 316 L

Control Function I, double-acting actuator, G-port connection, PA-actuator

Port connect.	Orifice [mm]	Diaphragm	Operating pressure [bar]	Actuator Size [mm]	Item-No.
G 1/4	8	EPDM	10.0	40	135 676 W
G 1/4	8	PTFE/EPDM	10.0	40	135 677 X
G 1/2	15	EPDM	10.0	50	141 620 G
G 1/2	15	PTFE/EPDM	10.0	63	141 622 W
G 3/4	20	EPDM	10.0	63	141 624 Y
G 3/4	20	EPDM	10.0	80	141 625 Z
G 3/4	20	PTFE/EPDM	10.0	80	141 628 C
G 1	25	EPDM	10.0	80	141 630 A
G 1	25	PTFE/EPDM	10.0	80	141 632 Y
G 1 1/4	32	EPDM	10.0	100	141 634 S
G 1 1/4	32	PTFE/EPDM	9.5	100	141 636 U
G 1 1/2	40	EPDM	10.0	100	141 638 E
G 1 1/2	40	PTFE/EPDM	10.0	125	141 640 L
G 2	50	EPDM	10.0	125	141 642 A
G 2	50	PTFE/EPDM	9.5	125	141 644 C

Control Function I, double-acting actuator, Weld-end port connection (ISO 4200), PPS-actuator

Port connect.	Orifice [mm]	Diaphragm	Operating pressure [bar]	Actuator Size [mm]	Item-No.
Weld end	8	EPDM	10.0	40	135 674 U
Weld end	8	PTFE/EPDM	10.0	40	135 675 V
Weld end	15	EPDM	10.0	50	135 679 H
Weld end	15	PTFE/EPDM	10.0	63	135 683 N
Weld end	20	EPDM	10.0	63	135 687 J
Weld end	20	EPDM	10.0	80	135 691 N
Weld end	20	PTFE/EPDM	10.0	80	135 693 Q
Weld end	25	EPDM	10.0	80	135 699 W
Weld end	25	PTFE/EPDM	10.0	80	135 701 Y
Weld end	32	EPDM	10.0	100	135 707 W
Weld end	32	PTFE/EPDM	9.5	100	135 711 R
Weld end	40	EPDM	10.0	100	135 715 M
Weld end	40	PTFE/EPDM	10.0	125	135 719 Z
Weld end	50	EPDM	10.0	125	135 723 M
Weld end	50	PTFE/EPDM	9.5	125	135 727 R

Accessories and Options on Request

- Digital electro-pneumatically operated positioner
- Electrical feedback signaller Type 1062
- Magnetic-inductive proximity sensors for position sensing mounted to the actuator
- Independently adjustable stroke limitation:
 - for maximum flow
 - for minimum flow
- Hand wheel
- Namur adapter for pilot valve



INGENIEROS ASOCIADOS DE CONTROL S.L.
Telf.: 913831390
comercial@iac-sl.es

