



Diaphragm Valves

Contact : Dave Foley

Email: Dave.foley@flexachem.com

Tel: 083 0891204

Manual Diaphragm Valve Type 905

As supplement to the existing product range, SED Flow Control developed a new innovative manual diaphragm valve series: Type 905.

It is User-friendly with integrated, beneficial features for our customers and has an attractive design.

Type 905 differentiates from the existing products in the market by offering unique features.

Diaphragm valves made of high quality stainless steel with a polished surface of 0,25 to 0,8 μm are used to shut off, control or dose aseptic medias.

The main applications are in following industries:

- Pharmaceutical industry
- Biotech industry
- Cosmetic industry
- Food- and beverage industry
- Chemical industry

Features

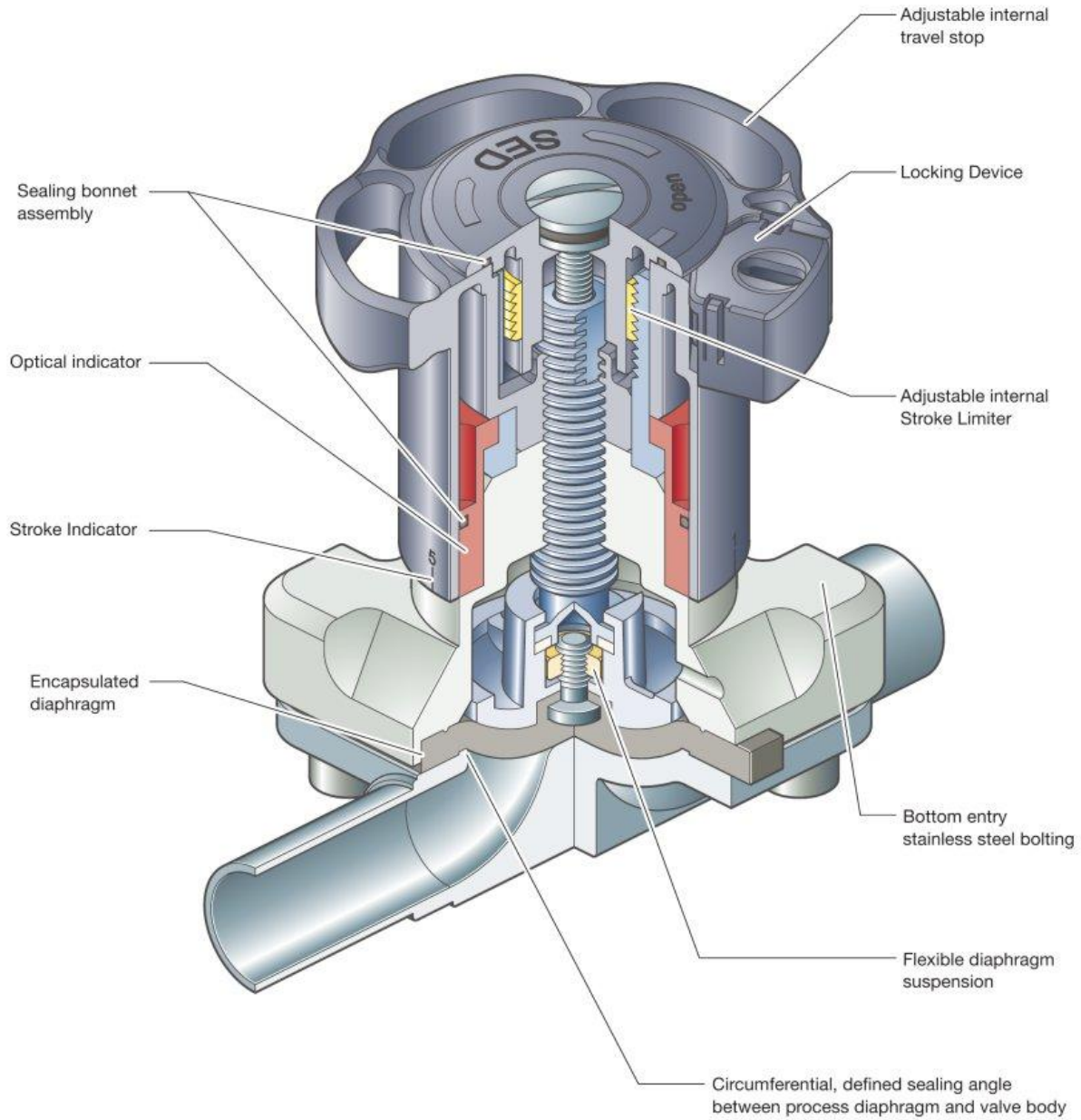
- Diaphragm Size MA25 – 50, DN15-50
- Stainless steel bonnet and plastic hand wheel
- Rising hand wheel with optical indicator and stroke indicator
- Sealed bonnet
- Integrated travel stop
- Integrated stroke limiter
- Integrated locking device
- CDSA sealing concept
- Flexible diaphragm suspension
- Encapsulated diaphragm

Optional

- U-Lock for hand wheel
- Assembly of proximity switches
- Autoclavable



Manual Diaphragm Valve Type 905



Product movie



Scan the QR-Code or
visit www.sed-flowcontrol.com

Manual Valve DN 65 - 100 mm (2 1/2" - 4")



DN 100, KMD 985

Features

- Plastic bonnet and plastic hand wheel
- Non rising hand wheel with optical indicator
- Flexible diaphragm suspension
- Encapsulated diaphragm
- CDSA sealing concept, see page 32

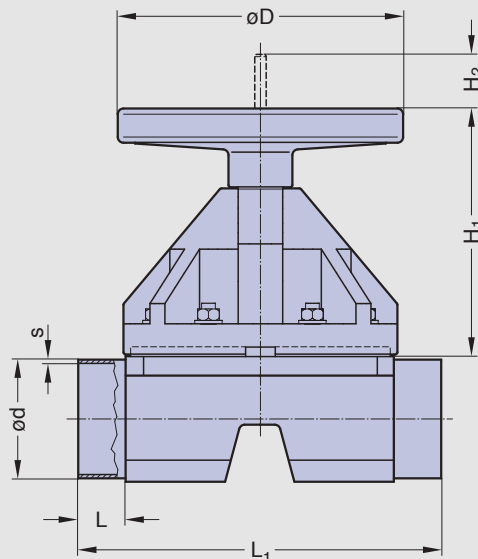
Optional

- Adjustable travel stop or stroke limiter on top
- Sealed bonnet
- Locking device

Technical Data

Control function:	Manually operated
Max. working pressure:	EPDM 10 bar (150 psi) PTFE 8 bar (115 psi)
Max. working temperature:	S-Version 80°C (176°F) dependent on application
Diaphragm material:	EPDM or PTFE
Valve body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Suitable for:	Two-Way bodies Welded configurations T- bodies Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA see table

Butt weld ends
MA 25 - 100
Fold out page 21



DN 65 - 100 (Drawing MA 100)

DN (mm)	MA	Dimensions (mm)					Total weight ca. (kg)	
		L	L ₁	H ₁	H ₂	D	Investment cast	Forged
65	80	30	216	180	38	198	7,0	9,0
80	80	30	254	180	38	198	7,0	9,0
100	100	30	305	220	50	252	14,0	12,0

Manual Valve DN 8 - 20 mm (3/8" - 3/4")



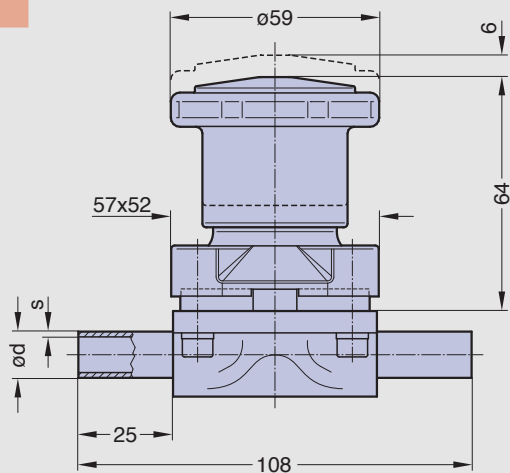
Features

- Plastic bonnet and hand wheel
- Rising hand wheel
- Sealed bonnet with optical indicator
- Adjustable internal travel stop
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm

Technical Data

Control function:	Manually operated
Max. working pressure:	6 bar (87 psi)
Max. working temperature:	S-Version: 80°C (176°F) dependent on application HS-Version: 150°C (300°F) dependent on application
Diaphragm material:	EPDM or PTFE
Body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies / Welded configurations T- bodies / Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA 10
Weight:	ca. 0,5 kg
Technical data also valid for multiport valve.	

Butt weld ends
MA 10
Fold out page 21



Pneumatically Operated Valve DN 65 - 100 mm (2 1/2" - 4")



Features

- High cycle stainless steel piston actuator
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange
- Advantages in multiport bodies and manifold valve assemblies
- Control air connection in flow direction
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm
- Clean and polished exterior design ideal for sterile wash downs

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection 90° to flow direction
- Autoclavable

Technical Data

Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3 & 6
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.

Direction

Control connection: At Cf. 4, 5 & 6, in flow direction, standard
 At Cf. 1, 2 & 3, 90° to flow direction

Max. working pressure: Unidirectional (delta p = 100%)

Diaphragm	DN 65-80 (2,5"-3")	DN 100 (4")
EPDM	7 bar (100 psi)	6 bar (87 psi)
PTFE	6 bar (87 psi)	5 bar (72 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: 160°C (320°F) dependent on application

Control pressure: Cf. 1 & 4 DN 65-80 5 - 8 bar(72-115 psi)
 Cf. 1 & 4 DN 100 6 - 8 bar(87-115 psi)
 Cf. 2, 3, 5 & 6 DN 65-80 4,5-6 bar(65-87 psi)
 Cf. 2, 3, 5 & 6 DN 100 5,5-7 bar(80-100 psi)

Diaphragm material: EPDM or PTFE
 Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys

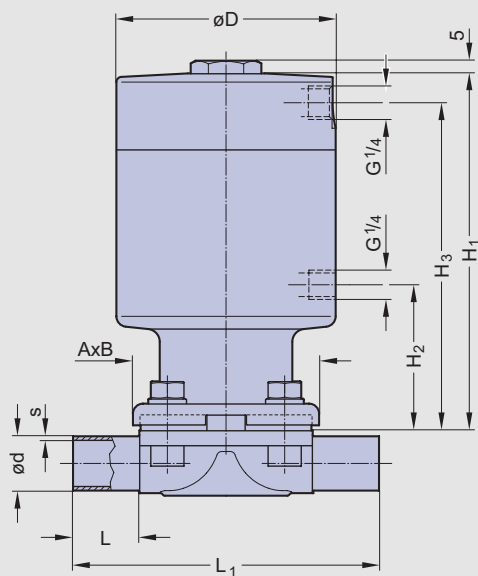
End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends

Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies

Flow rate: Kv in m³/h (Cv in GPM) see page 9

Diaphragm size: MA see table below

Technical data also valid for multiport valve.



Butt weld ends
 MA 25 - 100
 Fold out page 21

DN (mm)	MA	Dimensions (mm)							Total weight ca. (kg)	
		L	L ₁	A x B	H ₁	H ₂	H ₃	D	Investment cast	Forged
65	80	30	216	170x190	309	135	285	179	23,0	26,0
80	80	30	254	170x190	309	135	285	179	23,0	26,0
100	100	30	305	ø238	318	143	295	179	33,0	1,0

* Cf. 2, 3, 5, 6 = 170

Manual Valve DN 15 - 50 mm (3/4" - 2 1/2")



Features

- Plastic bonnet and plastic hand wheel
- Non rising hand wheel with optical indicator
- Flexible diaphragm suspension
- Encapsulated diaphragm
- CDSA sealing concept, see page 32
- Locking device

The system can be engaged by simply lifting the handwheel once the required position has been reached.

To release the operating mechanism, simply return the handwheel to its previous position by pushing it downwards.

When the system is in the locked position, u-lock can be installed to protect the plant against unwanted interference.

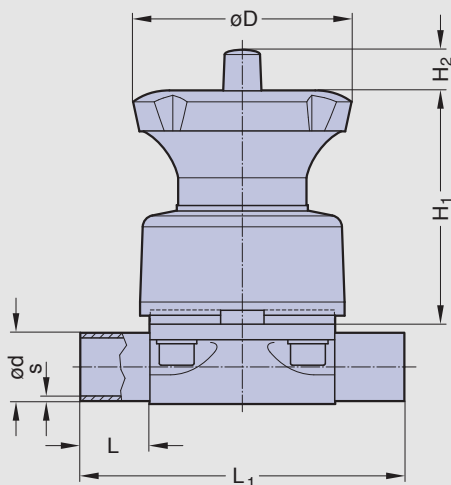
Optional

- Adjustable stroke limiter on top

Technical Data

Control function:	Manually operated
Max. working pressure:	10 bar (150 psi)
Max. working temperature:	80°C (176°F)
Diaphragm material:	dependent on application EPDM or PTFE
Valve body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Suitable for:	Two-Way bodies, otherwise depending on design
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA see table

Butt weld ends
MA 25 - 50
Fold out page 21



DN (mm)	MA	Dimensions (mm)					Total weight ca. (kg)	
		L	L ₁	H ₁	H ₂	D	Investment cast	Forged
15-25	25	25	120	85	15	154	0,87	0,96
32-40	40	25	153	102	24	194	1,59	1,83
50	50	30	173	117	24	224	2,30	3,40

Pneumatically Operated Valve DN 15 - 80 mm (3/4" - 3")



Cf. 1

Features

- Plastic diaphragm actuator direct assembled with the valve body
- Actuator high resistance to heat transfer
- Smooth exterior design ideal for wash downs
- Control air connection 90° to flow direction
- Flexible diaphragm suspension
- Encapsulated diaphragm
- CDSA sealing concept, see page 32

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting

Technical Data

Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1
 Fail safe open (NO): Cf. 2
 Double acting (DA): Cf. 3
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.

Direction

Control connection: At Cf. 1, 2 & 3, 90° to flow direction, standard
 Max. working pressure: Unidirectional (delta p = 100%)

Diaphragm	DN 15-50 (1/2"-2")	DN 65-80 (2,5"-3")
EPDM	10 bar (150 psi)	7 bar (100 psi)
PTFE	8 bar (115 psi)	6 bar (87 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: S-Version 80°C (176°F)

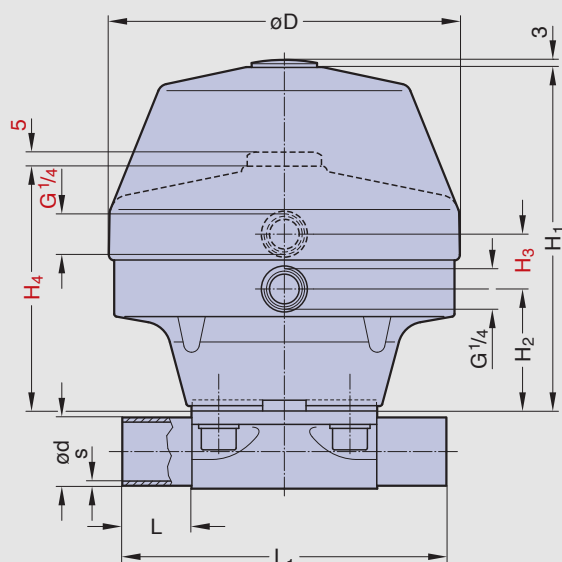
Control pressure:
 Cf. 1 DN 15-50 4,5 - 6 bar (65-87 psi)
 Cf. 1 DN 65-80 4,5 - 7 bar (65-100 psi)
 Cf. 2 & 3 DN 15-80 4 - 5,5 bar (60-80 psi)

Diaphragm material: EPDM or PTFE
 Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys

End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends

Actuators suitable for: Two-Way bodies
 Welded configurations

Flow rate: Kv in m³/h (Cv in GPM) see page 9
 Diaphragm size: MA see table below



Butt weld ends
 MA 25 - 80
 Fold out page 21

DN (mm)	MA	Dimensions (mm)							D	Total weight ca. (kg)		Filling volume (NL)	
		L	L ₁	H ₁	H ₂	H ₃	H ₄	Investment cast		Forged	NC	NO/DA	
15-25	25	25	120	128	49	31	97	130	1,9	2,0	0,16	0,13	
32-40	40	25	153	176	77	31	131	161	3,8	4,1	0,36	0,28	
50	50	30	173	214	91	31	161	217	8,0	9,0	1,15	0,50	
65	80	30	216	269	121	41	229	265	16,0	18,0	1,15	0,50	
80	80	30	254	269	121	41	229	265	16,0	18,0	1,15	0,50	

Note: H3 and H4 only for valves with Cf. 2 and Cf. 3 H1 only for valve with Cf. 1

Pneumatically Operated Valve DN 8 - 20 mm (3/8" - 3/4")

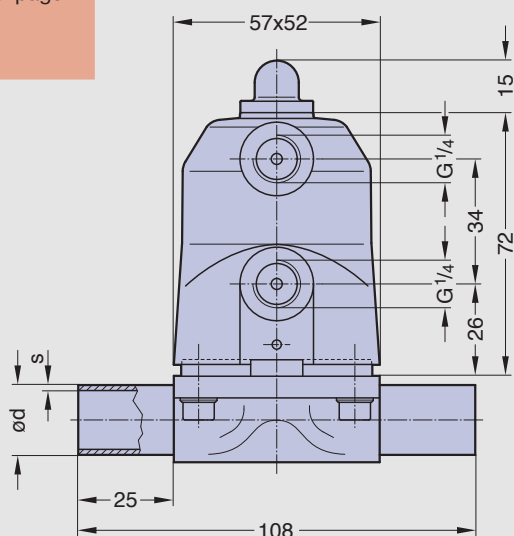


HS-Version, Cf. 1, 2 & 3



HS-Version, Cf. 4 & 5

Butt weld ends
MA 10
Fold out page 21



Features

- Efficient plastic piston actuator direct assembled with the valve body
- Control air connection 90° to flow direction for side by side or other installations saving space
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange
- Actuator high resistance to heat transfer
- Smooth exterior design ideal for wash downs
- Encapsulated diaphragm
- Optical indicator
- CDSA sealing concept, see page 32

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection in flow direction

Technical Data

- Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.
- Direction
 Control connection: At Cf. 1, 2 & 3, 90° to flow direction, standard
 At Cf. 4 & 5 in flow direction
- Max. working pressure: Unidirectional (delta p = 100%)
 EPDM diaphragm 8 bar (115 psi)
 PTFE diaphragm 7 bar (100 psi)
- Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

- Max. working temperature: PS-Version 80°C (176°F)
 HS-Version 150°C (300°F)
 dependent on Application
- Control pressure: Cf. 1 & 4 4,2 - 7 bar (60 - 100 psi)
 Cf. 2, 3 & 5 4 - 5 bar (60 - 72 psi)
- Diaphragm material: EPDM or PTFE
 Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys
- End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends
- Actuators suitable for: Two-Way bodies
 Welded configurations
- Flow rate: Kv in m³/h (Cv in GPM) see page 9
 Diaphragm size: MA 10
 Weight: ca. 0,6 kg

DN (mm)	MA	Filling volume (NL)	
		NC	NO/DA
8-20	10	0,027	0,027

Manual Valve DN 65 - 100 mm (2 1/2" - 4")



DN 80, KMA 995

Features

- **Stainless steel bonnet and plastic hand wheel**
- Non rising hand wheel with optical indicator
- Flexible diaphragm suspension
- Encapsulated diaphragm
- CDSA sealing concept, see page 32

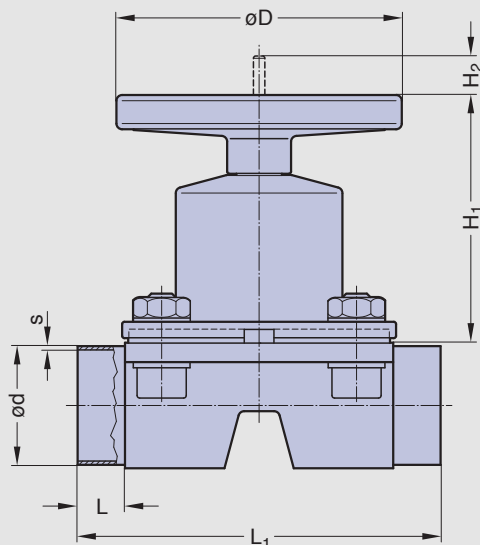
Optional

- Adjustable travel stop or stroke limiter
- Sealed bonnet
- Locking device

Technical Data

Control function:	Manually operated
Max. working pressure:	EPDM 10 bar (150 psi) PTFE 8 bar (115 psi)
Max. working temperature:	160°C (320°F) dependent on application
Diaphragm material:	EPDM or PTFE
Valve body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies Welded configurations T- bodies Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA see table
Technical data also valid for multiport valve.	

Butt weld ends
MA 25 - 100
Fold out page 21



DN 65 - 100 (Drawing MA 80)

DN (mm)	MA	Dimensions (mm)					Total weight ca. (kg)	
		L	L ₁	H ₁	H ₂	D	Investment cast	Forged
65	80	30	216	180	38	198	10,0	13,0
80	80	30	254	180	38	198	10,0	13,0
100	100	30	305	220	50	252	19,0	17,0

Manual Valve DN 4 - 15 mm (1/4" - 1/2")



KMA 205, S03

Features

- **Stainless steel bonnet and plastic hand wheel**
- Manual diaphragm Valve with plastic hand wheel is suitable for a limited number of cycles of autoclaving.
- Rising hand wheel
- Sealed bonnet with optical indicator
- Adjustable internal travel stop
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension

Specific features S02

- Adjustable internal stroke limiter
- Locking device

Optional features S02

- U-Lock for hand wheel
- Assembly of proximity switches

Technical Data

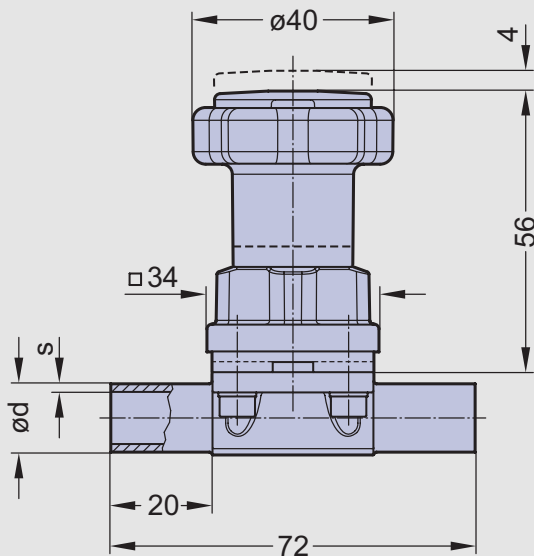
Control function:	Manually operated
Max. working pressure:	10 bar (150 psi)
Max. working temperature:	160°C (320°F) dependent on application
Diaphragm material:	EPDM or PTFE
Body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies Welded configurations T- bodies Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA 8
Weight:	ca. 0,2 kg

Technical data also valid for multiport valve.

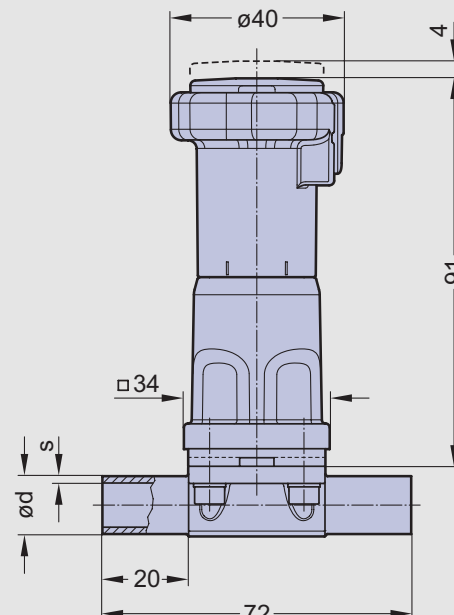
Butt weld ends
MA 8
Fold out page 21



KMA 205, S02



KMA 205



KMA 205

Manual Valve DN 8 - 20 mm (3/8" - 3/4")



Features

- Stainless steel bonnet and hand wheel
- Autoclavable
- Rising hand wheel
- Sealed bonnet with optical indicator
- Adjustable internal travel stop
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm

Optional

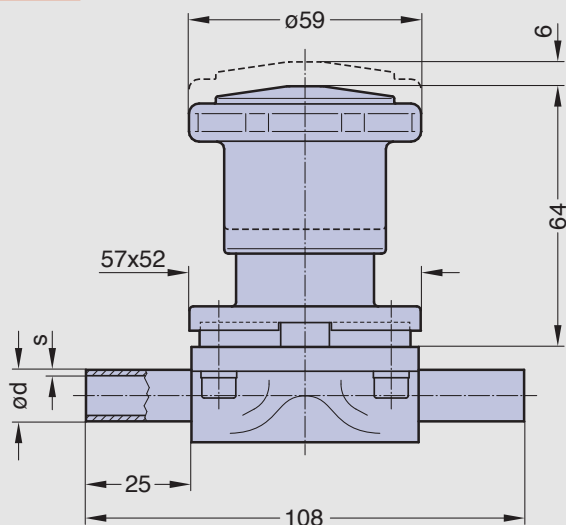
- Locking device

Technical Data

Control function:	Manually operated
Max. working pressure:	10 bar (150 psi)
Max. working temperature:	160°C (320°F) dependent on application
Diaphragm material:	EPDM or PTFE
Body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies / Welded configurations T- bodies / Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA 10
Weight:	ca. 0,8 kg

Technical data also valid for multiport valve.

Butt weld ends
MA 10
Fold out page 21



Pneumatically Operated Valve DN 8 - 20 mm (3/8" - 3/4")



Features

- Two stage stainless steel actuator
- Second position adjustable with reduced flow for filling
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange
- Advantages in multiport bodies and manifold valve assemblies
- Control air connection in flow direction
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm
- Clean and polished exterior design ideal for sterile wash downs
- Optical indicator

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection 90° to flow direction
- Autoclavable
- Indication of 3 positions with 024.50, see page 138 and 139
- Fine filling adjustment

Technical Data

Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.

Direction

Control connection: At Cf. 4 in flow direction, standard
 At Cf. 1, 90° to flow direction

Max. working pressure: Unidirectional (delta p = 100%)
 EPDM Membrane 8 bar (115 psi)
 PTFE Membrane 7 bar (100 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: 160°C (320°F) dependent on application

Control pressure: Cf. 1 & 4 4,5 - 7 bar (60 - 100 psi)

Diaphragm material: EPDM or PTFE

Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys

End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends

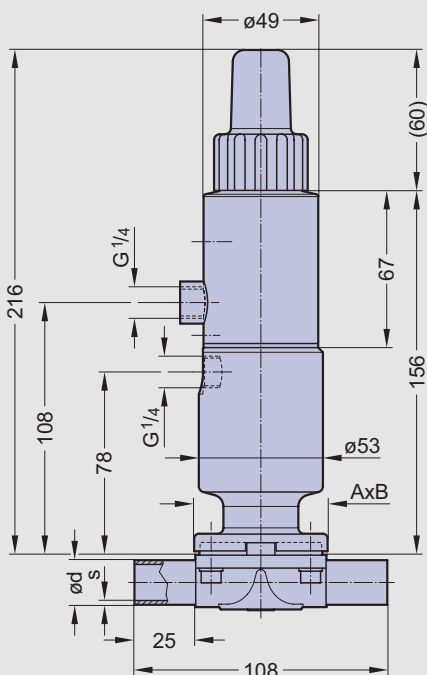
Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies

Flow rate: Kv in m³/h (Cv in GPM) see page 9

Diaphragm size: MA 10

Weight: ca. 1,7 kg

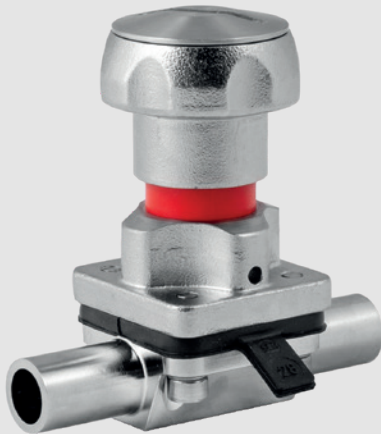
Technical data also valid for multiport valve.



Butt weld ends
 MA 10
 Fold out page 21

Steripur 206

Manual Valve DN 4 - 15 mm (1/4" - 1/2")



Features

- **Stainless steel bonnet and hand wheel**
- Autoclavable
- Rising hand wheel
- Sealed bonnet with optical indicator
- Adjustable internal travel stop
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension

Optional

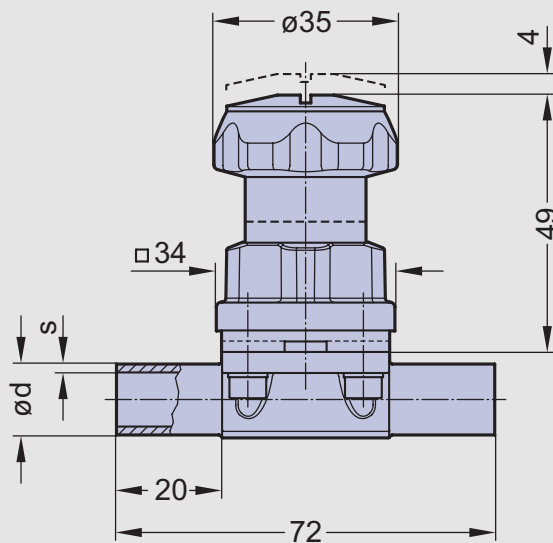
- Locking device

Technical Data

Control function:	Manually operated
Max. working pressure:	10 bar (150 psi)
Max. working temperature:	160°C (320°F) dependent on application
Diaphragm material:	EPDM or PTFE
Body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies Welded configurations T- bodies Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA 8
Weight:	ca. 0,3 kg

Technical data also valid for multiport valve.

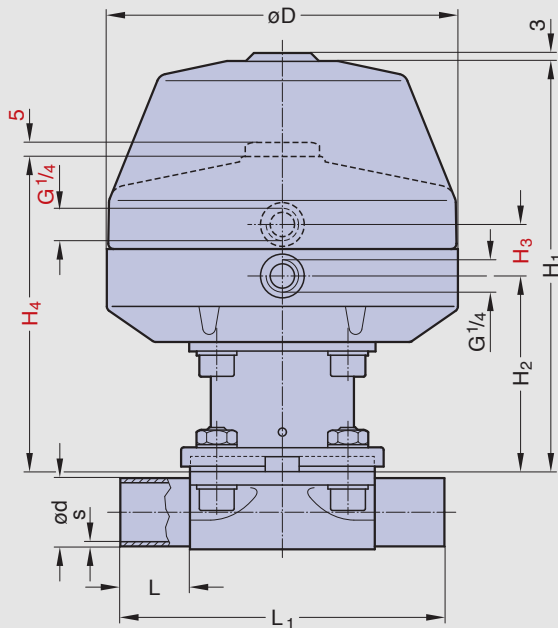
Butt weld ends
MA 8
Fold out page 21



Pneumatically Operated Valve DN 15 - 100 mm (3/4" - 4")



Cf. 1



Butt weld ends
MA 25 - 100
Fold out page 21

Features

- Plastic diaphragm actuator with stainless steel distance piece
- Control air connection 90° to flow direction
- Flexible diaphragm suspension
- Encapsulated diaphragm
- CDSA sealing concept, see page 32

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting

Technical Data

Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1
 Fail safe open (NO): Cf. 2
 Double acting (DA): Cf. 3
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.

Direction

Control connection: At Cf. 1, 2 & 3, 90° to flow direction, standard
 Max. working pressure: Unidirectional ($\Delta p = 100\%$)

Diaphragm	DN 15-50 (1/2"-2")	DN 65-80 (2,5"-3")	DN 100 (4")
EPDM	10 bar (150 psi)	7 bar (100 psi)	6 bar (87 psi)
PTFE	8 bar (115 psi)	6 bar (87 psi)	5 bar (72 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: 160°C (320°F) dependent on application

Control pressure:
 Cf. 1 DN 15-50 4,5 - 6 bar (65-87 psi)
 Cf. 1 DN 65-80 4,5 - 7 bar (65-100 psi)
 Cf. 1 DN 100 5,5 - 7 bar (80-100 psi)
 Cf. 2 & 3 DN 15-80 4 - 5,5 bar (60-80 psi)
 Cf. 2 & 3 DN 100 5 - 6,5 bar (72-93 psi)

Diaphragm material: EPDM or PTFE
 Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys
 End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends

Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies

Flow rate: Kv in m³/h (Cv in GPM) see page 9

Diaphragm size: MA see table below

Technical data also valid for multiport valve.

DN (mm)	MA	Dimensions (mm)						D	Total weight ca. (kg)		Filling volume (NL)	
		L	L ₁	H ₁	H ₂	H ₃	H ₄		Investment cast	Forged	NC	NO/DA
15-25	25	25	120	148	71	31	120	130	1,9	2,0	0,15	0,11
32-40	40	25	153	194	95	31	144	161	4,7	4,9	0,26	0,23
50	50	30	173	233	109	31	177	217	7,0	8,0	0,73	0,54
65	80	30	216	314	166	41	275	265	20,0	23,0	2,30	1,87
80	80	30	254	314	166	41	275	265	20,0	23,0	2,30	1,87
100	100	30	305	314	166	41	284	265	29,0	27,0	2,30	2,00

Note: H₃ and H₄ only for valves with Cf. 2 and Cf. 3 H₁ only for valve with Cf. 1

Pneumatically Operated Valve DN 8 - 20 mm (3/8" - 3/4")

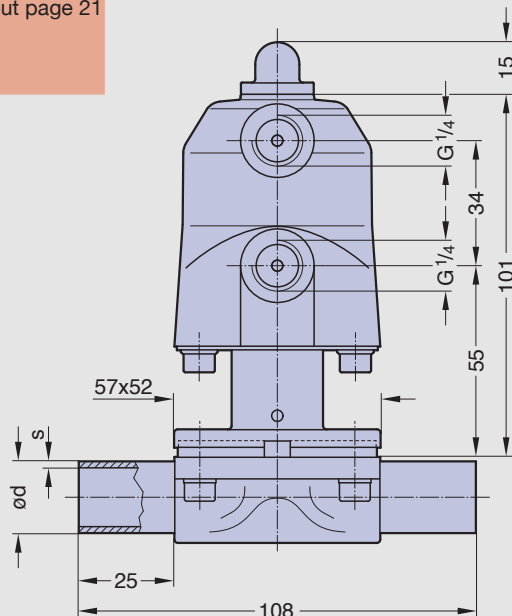


Cf. 1, 2 & 3



Cf. 4 & 5

Butt weld ends
MA 10
Fold out page 21



Features

- Efficient plastic piston actuator with stainless steel distance piece
- Control air connection 90° to flow direction
- Flexible diaphragm suspension
- Encapsulated diaphragm
- Optical indicator
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange
- CDSA sealing concept, see page 32

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection in flow direction

Technical Data

- Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.
- Direction
 Control connection:
 Max. working pressure: At Cf. 1, 2 & 3, 90° to flow direction, standard
 Unidirectional (delta p = 100%)
 EPDM diaphragm 8 bar (115 psi)
 PTFE diaphragm 7 bar (100 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

- Max. working temperature:
 Control pressure: 160°C (320°F) dependent on application
 Cf. 1 4,2 - 7 bar (60 - 100 psi)
 Diaphragm material: Cf. 2, 3 4 - 5 bar (60 - 72 psi)
 Valve body material: EPDM or PTFE
 Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
- End connection: Other alloys
 Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
- Actuators suitable for: Special ends
 Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies
- Flow rate: Tank bottom bodies
 Diaphragm size: Kv in m³/h (Cv in GPM) see page 9
 Weight: MA 10
 ca. 0,8 kg
- Technical data also valid for multiport valve.

DN (mm)	MA	Filling volume (NL)	
		NC	NO/DA
8-20	10	0,027	0,027

Pneumatically Operated Valve DN 4 - 15 mm (1/4" - 1/2")

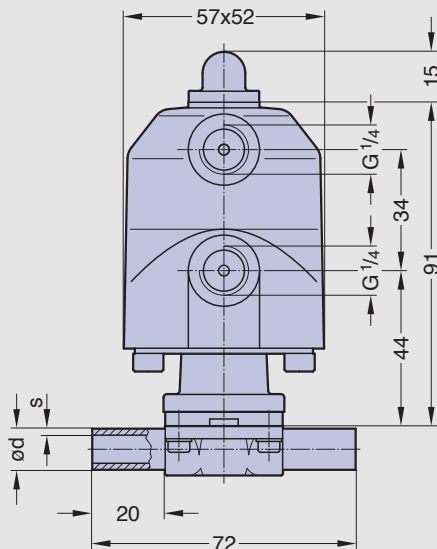


Cf. 1, 2 & 3



Cf. 4, 5 & 6

Butt weld ends
MA 8
Fold out page 21



Features

- Efficient plastic piston actuator with stainless steel distance piece
- Direction of control air connection is mountable in 90° rotations
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Optical indicator

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting

Technical Data

- Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3 & 6
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.
- Direction
 Control connection: At Cf. 1, 2 & 3, 90° to flow direction, standard
 At Cf. 4, 5 & 6 in flow direction
- Max. working pressure: Unidirectional (delta p = 100%)
 EPDM diaphragm 8 bar (115 psi)
 PTFE diaphragm 7 bar (100 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

- Max. working temperature: 160°C (320°F) dependent on application
- Control pressure: Cf. 1 & 4 4 - 7 bar (60 - 100 psi)
 Cf. 2, 3, 5 & 6 3,5 - 4,5 bar (50 - 65 psi)
- Diaphragm material: EPDM or PTFE
- Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys
- End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends
- Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies
- Flow rate: Kv in m³/h (Cv in GPM) see page 9
- Diaphragm size: MA 8
- Weight: ca. 0,5 kg
- Technical data also valid for multiport valve.

DN (mm)	MA	Filling volume (NL)	
		NC	NO/DA
4-15	8	0,027	0,027

Steripur 907

Manual Valve DN 15 - 50 mm (3/4" - 2 1/2")



Steripur 907, T01

Features

- **Stainless steel bonnet and hand wheel**
- Autoclavable
- Rising hand wheel with optical indicator and stroke indicator
- Sealed bonnet
- Internal travel stop
- Locking device
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm

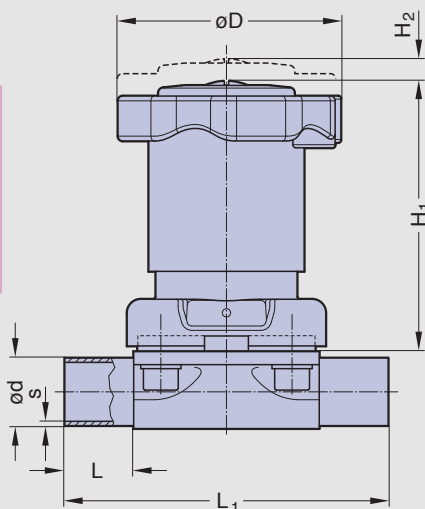
Optional

- Adjustable internal stroke limiter
- U-Lock for hand wheel
- Assembly of proximity switches

Technical Data

Control function:	Manually operated
Max. working pressure:	10 bar (150 psi)
Max. working temperature:	160°C (320°F) dependent on application
Diaphragm material:	EPDM or PTFE
Valve body material:	Forged 1.4435/ 316L ASME/BPE Investment cast 1.4435/ 316L Other Alloys
End connection:	Butt weld ends see fold out page 21 Clamps and flanges see page 22 to 24 Special ends
Bonnets suitable for:	Two-Way bodies Welded configurations T- bodies Multiport bodies Tank bottom bodies
Flow rate:	Kv in m ³ /h (Cv in GPM) see page 9
Diaphragm size:	MA see table
Technical data also valid for multiport valve.	

Butt weld ends
MA 25 - 50
Fold out page 21



DN (mm)	MA	Dimensions (mm)					Total weight ca. (kg) Steripur 907	
		L	L ₁	H ₁	H ₂	D	Investment cast	Forged
15-25	25	25	120	100	10	84	2,1	2,2
32-40	40	25	153	119	16	112	3,5	3,7
50	50	30	173	136	20	135	4,8	5,9

Pneumatically Operated Valve DN 4 - 15 mm (1/4" - 1/2")



217.30 Cf. 4



217.25 Cf. 5 & 6

This valve is available in two different designs.

The type 217.30 is available in the control function fail safe close and performs at a higher working pressure for standard application. Advantages of the type 217.25 are a very high cycle life and a smaller overall dimensional height. Type 217.25 is available in control functions fail safe open and double acting for standard working pressures.

Features

- **High cycle stainless steel piston actuator**
Type 217.30 with double piston
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange connecting diaphragm and body
- Advantages in multiport bodies and manifold valve assemblies
- Low control air volume, high switching speed
- High repeatability
- Control air connection on the top, away from the process product line
- Direction of control air connection is mountable in 90° rotations
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Clean and polished exterior design ideal for sterile wash downs

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139 for this options
- Autoclavable

Technical Data

- Control function (Cf.): Pneumatically operated
- 217.30: Fail safe close (NC): Cf. 1 & 4
- 217.25: Fail safe open (NO): Cf. 2 & 5
- Double acting (DA): Cf. 3 & 6
- At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.
- Direction
- Control connection: At Cf. 4, 5 & 6 in flow direction, standard
At Cf. 1, 2 & 3, 90° to flow direction
- Max. working pressure: Unidirectional (delta p = 100%)
- 217.30: Cf: Fail safe close
EPDM diaphragm 8 bar (115 psi)
PTFE diaphragm 7 bar (100 psi)
- 217.25: Cf: Fail safe open and double acting
EPDM diaphragm 8 bar (115 psi)
PTFE diaphragm 7 bar (100 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: 160°C (320°F) dependent on application

- Control pressure:
- 217.30: Cf. 1 & 4 4 - 7 bar (60 - 100 psi)
- 217.25: Cf. 1 & 4 5,5 - 7 bar (80 - 100 psi)
- Cf. 2, 3, 5 & 6 5,5 - 7 bar (80 - 100 psi)

- Diaphragm material: EPDM or PTFE
- Valve body material: Forged 1.4435/ 316 L ASME/BPE
Investment cast 1.4435/ 316 L
Other alloys

- End connection: Butt weld ends see fold out page 21
Clamps and flanges see page 22 to 24
Special ends

- Actuators suitable for: Two-Way bodies, Welded configurations, T-bodies, Multiport bodies, Tank bottom bodies

Flow rate: Kv in m³/h (Cv in GPM) see page 9

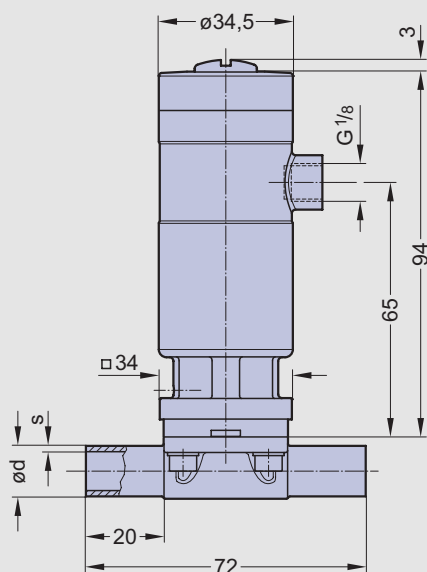
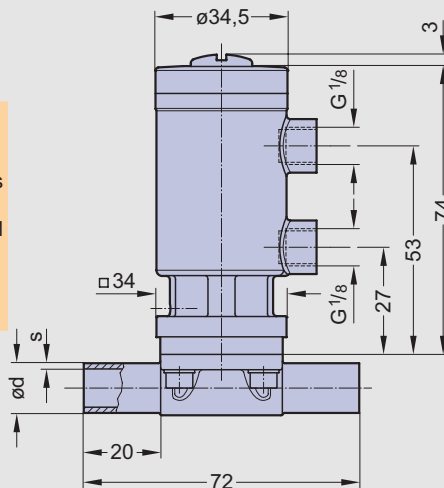
Diaphragm size: MA 8

- Weight: 217.30: ca. 0,45 kg
217.25: ca. 0,44 kg

Technical data also valid for multiport valve.

Type	MA	Filling volume (NL)	
		NC	NO/DA
217.25	8		0,013
217.30	8	0,013	

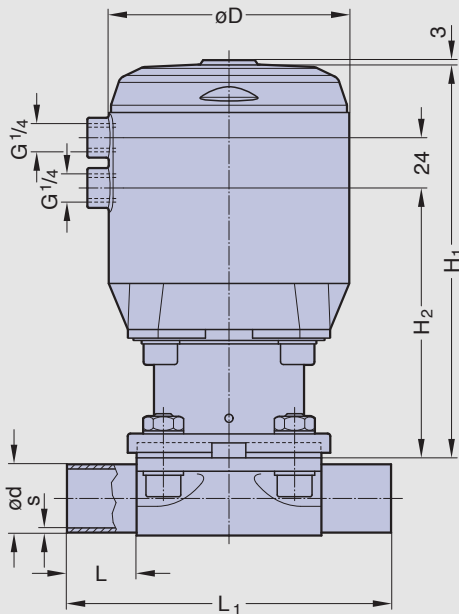
Butt weld ends
MA 8
Fold out page 21



Pneumatically Operated Valve DN 15 - 50 mm (3/4" - 2 1/2")



Cf. 4, 5 & 6



Butt weld ends
MA 25 - 50
Fold out page 21

Features

- Plastic piston actuator with stainless steel distance piece
- Compact design
- Control air connection in flow direction
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection 90° to flow direction

Technical Data

- Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3 & 6
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.
- Direction
 Control connection: At Cf. 4, 5 & 6, in flow direction, standard
 At Cf. 1, 2 & 3, 90° to flow direction
- Max. working pressure: Unidirectional ($\Delta p = 100\%$)
 EPDM Diaphragm 10 bar (150 psi)
 PTFE Diaphragm 8 bar (115 psi)
- Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.
- Max. working temperature: 160°C (320°F) dependent on application
- Control pressure: Cf. 1 & 4 4,5 - 7 bar (65 - 100 psi)
 Cf. 2, 3, 5 & 6 4 - 5 bar (60 - 72 psi)
- Diaphragm material: EPDM or PTFE
 Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys
- End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends
- Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies
- Flow rate: Kv in m³/h (Cv in GPM) see page 9
 Diaphragm size: MA see table below
 Technical data also valid for multiport valve.

DN (mm)	MA	Dimensions (mm)					Total weight ca. (kg)		Filling volume (NL)	
		L	L ₁	H ₁	H ₂	D	Investment cast	Forged	NC	NO/DA
15-25	25	25	120	160	107	95	1,9	2,0	0,17	0,20
32-40	40	25	153	190	129	115	3,9	4,2	0,31	0,34
50	50	30	173	236	171	144	7,0	8,0	0,68	0,80

Pneumatically Operated Valve DN 15 - 50mm (3/4" - 2 1/2")



DN 15 - 50 Cf. 4, 5, 6

Features

- High cycle stainless steel piston actuator
- Compact design, the outside diameter of the actuator is the same size as the bonnet flange
- Advantages in multiport bodies and manifold valve assemblies
- Control air connection in flow direction
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm
- Clean and polished exterior design ideal for sterile wash downs

Optional

- Available with a wide range of control equipment and accessories see page 132 to 139, also for retrofitting
- Control air connection 90° to flow direction
- Autoclavable

Technical Data

Control function (Cf.): Pneumatically operated
 Fail safe close (NC): Cf. 1 & 4
 Fail safe open (NO): Cf. 2 & 5
 Double acting (DA): Cf. 3 & 6
 At control function NO/DA higher control pressure than required may affect the lifetime of the working diaphragm.

Direction

Control connection: At Cf. 4, 5 & 6, in flow direction, standard
 At Cf. 1, 2 & 3, 90° to flow direction

Max. working pressure: Unidirectional (delta p = 100%)

Diaphragm	DN 15-50 (1/2"-2")
EPDM	10 bar (150 psi)
PTFE	8 bar (115 psi)

Higher working pressure may be achieved with different actuator. Please consult a SED factory representative for working pressure above the indicated maximum.

Max. working temperature: 160°C (320°F) dependent on application

Control pressure: Cf. 1 & 4 DN 15-50 4,5 - 8 bar(65-115 psi)
 Cf. 2, 3, 5 & 6 DN 15-50 4,5-6 bar(65-87 psi)

Diaphragm material: EPDM or PTFE

Valve body material: Forged 1.4435/ 316 L ASME/BPE
 Investment cast 1.4435/ 316 L
 Other alloys

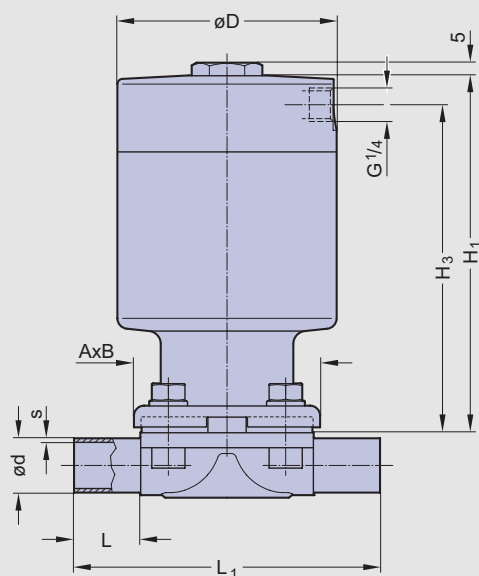
End connection: Butt weld ends see fold out page 21
 Clamps and flanges see page 22 to 24
 Special ends

Actuators suitable for: Two-Way bodies
 Welded configurations
 T-bodies
 Multiport bodies
 Tank bottom bodies

Flow rate: Kv in m³/h (Cv in GPM) see page 9

Diaphragm size: MA see table below

Technical data also valid for multiport valve.



Butt weld ends
 MA 25 - 100
 Fold out page 21

DN (mm)	MA	Dimensions (mm)						Total weight ca. (kg)		Filling volume (NL)	
		L	L ₁	A x B	H ₁	H ₃	D	Investment cast	Forged	NC	NO/DA
15-25	25	25	120	73x79	140	129	86	2,6	2,7	0,15	0,15
32-40	40	25	153	96x105	167	155	111	5,0	6,0	0,34	0,30
50	50	30	173	111x130	190	176	136	9,0	10,0	0,60	0,54