

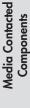


SED Manual Diaphragm Valves

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PTFE (TFM)

These PTFE diaphragms have been designed to offer the highest degree of chemical resistance, increased stability, longer flex life, less porosity, reduced cold flow and superior performance through temperature fluctuations between hot and cold and steam sterilization cycles.

MA8 and MA10

The diaphragm dimensions MA8 and MA10 are designed as one-piece diaphragms: This means that the EPDM back is bonded with the PTFE.

The diaphragms are always manufactured in the molded open position. These one-piece diaphragms feature smaller surface areas and are subject to shorter linear strokes which explains the excellent performance that has proved itself over time.

MA8 diaphragm incorporates an elastomer button for assembly with the valve operating mechanism. The MA10 utilizes a threaded stud assembly with the valve operating mechanism. Both these features eliminate the potential for point loading at the center of the diaphragm.

MA25 to MA100

The diaphragm dimensions MA25 to MA100 are designed as two-piece diaphragms-consisting of a separate EPDM backing cushion and a PTFE diaphragm. The diaphragm is always manufactured in the molded closed position. The advantage of this design for the MA25 to MA100 is that the diaphragm is in its molded shape while in the closed position of the valve. This reduces the force to close the valve and increases the diaphragm's life cycle.

In the two piece diaphragms the threaded stud connection is embedded in the PTFE of the diaphragm. To eliminate the potential of point loading at the center of the diaphragm, a floating suspension connection to the valve operating mechanism is utilized.

Note: Other diaphragm sizes and materials on request.

PTFE/EPDM

Elastomer

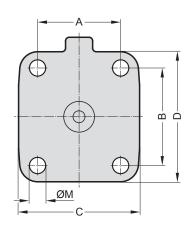
EPDM

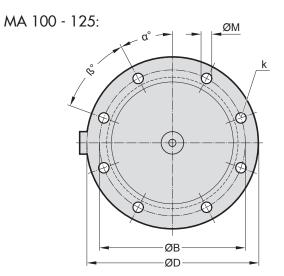
Ethylene-propylene elastomer peroxide cured. SED's EPDM is a specifically developed compound reinforced with a vulcanized woven fabric inlay and is always manufactured in the molded open position. This diaphragm design achieves higher stability for the diaphragm at higher temperatures and pressures. In addition, the woven fabric inlay is vulcanized over the embedded compressor stud in order to reinforce the elastomer-metal connection. Thus, the EPDM diaphragm is ideal for vacuum applications.



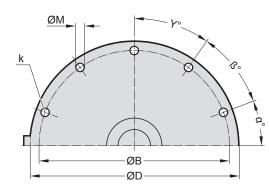
MA 8 - 80:

MA 150:





MA 10 - 150:



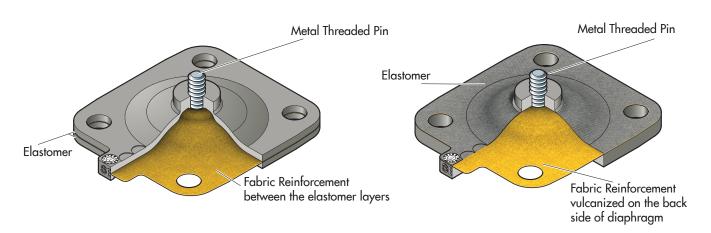
MA 8:

DN	NPS	MA	Α	В	С	D	ØM	k	W	α	β	γ
4 - 15	1/4" - 1/2"	8	22	22	31,5	31,5	4,5	4	-	-	-	-
8 - 20	3/8" - 1/2"	10	42.5	37.5	52	47	5.5	4	M4	-	-	-
15 - 25	1/2" - 1"	25	46	54	67	72	9	4	1/4"	-	-	-
32 - 40	1 1/4" - 1 1/2"	40	65	70	90	100	13.5	4	1/4"	-	-	-
50	2"	50	78	82	106	124	13	4	1/4"	-	-	-
65R	2 1/2"	50	78	82	106	124	13	4	1/4"	-	-	-
65 - 80	2 1/2" - 3"	80	114	127	156	186	18	4	5/16"	-	-	-
100	4"	100	-	194	-	228	14.5	8	5/16"	20	42	-
125	5"	125	-	222	-	254	17.5	8	3/8"	43.5	43.5	-
150	6"	150	-	273	-	298.5	17.5	10	3/8"	35	35	35

Dimensions (mm)

Diaphragm Code 28

Diaphragm Code 20



After a long and successful development accompanied by stringent tests, simulation of actual aseptic process applications and sterilization protocol, SED has released an improved elastomer formulation for our EPDM diaphragms. This EPDM diaphragm is made out of an improved compound material targeting critical aseptic applications with SIP steam sterilizing cycles and processes.

Features:

- The elastomer formulation for our Code 28 EPDM diaphragm is identical to the Code 20 EPDM diaphragm which has a different design and manufacturing process.
- Woven fabric reinforcement is positioned between two elastomer layers.
- Increased lifetime span under steam.
- All required approvals and conformities are available (See page 18).
- Diaphragm is interchangeable with all other SED diaphragm valves.

Typically an elastomer is manufactured with a woven fabric reinforcement positioned in the middle of the EPDM diaphragm to improve it's mechanical properties, like strength and durability. This is accomplished by vulcanizing the woven fabric reinforcement between two elastomer layers.

A specific manufacturing process has been developed to vulcanize the woven fabric reinforcement on the back side of the EPDM diaphragm. With this manufacturing process the diaphragm achieves better performance in SIP steam sterilizing cycles and processes with reliability in critical sterile processes.

Features:

- The elastomer formulation for our Code 20 EPDM diaphragm is identical to the Code 28 EPDM diaphragm.
- Maximum distance from the media fabric to contact surface.
 - Damage to the fabric can be easily spotted.
- Friction between compressor and the back of the diaphragm is minimized.
 - Therefore reduced wear and longer life cycle.
- Better load distribution because of the maximum height of pure elastomer when the fabric is on the back side.
- Increased process safety due to only one fabric layer. The position of the fabric on the back side is exactly geometrically defined.
- Production control is easier when the fabric is on the back side.
- All required approvals and conformities are available (See page 18).
- Diaphragm is interchangeable with all other SED diaphragm valves.



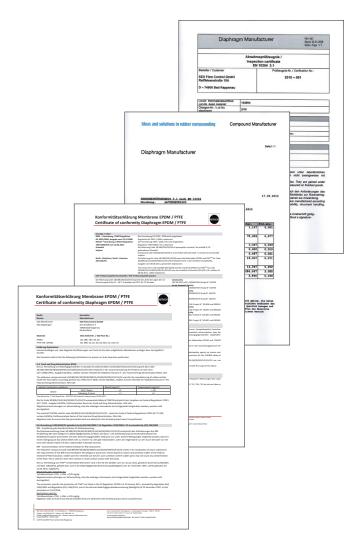
Certification and Compliance for Validation

At SED, we recognize the importance of the validation process in the aseptic industry.

This has led to an internal awareness and specific restructuring within the company to provide the highest level of reliability and regulatory compliance through the complete supply chain to provide a complete package of documentation for all components in contact with the medium. With regard to this, the diaphragm is the key component to the valve's performance.

- All resin and additives used in the manufacturing process are FDA compliant.
- Compounding, physical properties and manufacturing process are documented
- Certificate of Conformance with FDA for all diaphragms

 21CFR177.2600 for Elastomers
 21CFR177.1550 for Perfluorocarbon resins
- Certificate of Conformance with USP 28 Class VI, Chapter 87 In-Vitro and Chapter 88 In-Vivo
- Testing for extractable organic substances on the basis of ISO 10993-18 (detection by GC-MS)
- Certificate of Conformance with 3-A
- TSE/BSE (ADCF) Certification of Compliance to EMEA/410/01 "Guidance on Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medical Products"
- Certificate of Traceability according EN 10204 3.1 of compounding and molding process with material analysis
- Test data available upon request
- REACH-Verordnung (EU) 1907/2006/EG is observed
- RoHS Directive 2011/65/EU is observed
- Certificate of Conformance with (EG) 596/2009





Diaphragm Traceability

Every diaphragm is clearly identified, and the material is batch traceable by a set of unique codes molded into the diaphragm.

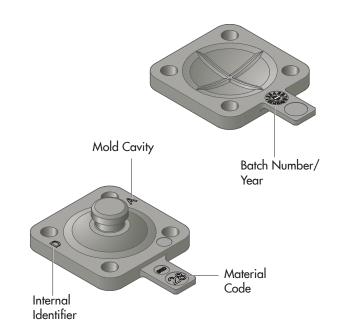
Information provided on the order and shipping documents as well as on the packaging is described by the following. With the request of the Material Analysis Traceability Certificate DIN EN 10204 3.1 for manufacturing and formulation the additionally provided information is shown in bold type.

- ... on the order and shipping documents:
- SED article number, material code with description
- Customer article number on request
- Batch number
- Shelf Life

... on packaging in which the diaphragm is bagged and sealed in plastic:

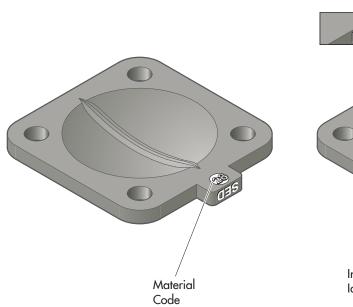
- SED article number, material code with description
- Internal order series number
- Packaging quantity
- Customer article number on request
- Batch number
- Shelf Life

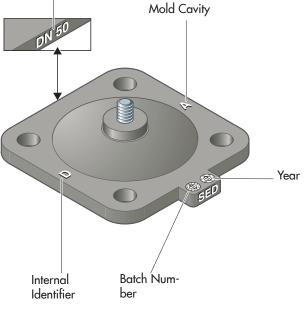
Example markings MA8



Example markings $MA \ge 25$

Diaphragm size





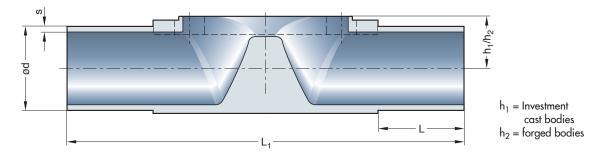


We offer tube end outside diameter and wall thickness dimensions in accordance to several international standards. These standards and dimensions are listed in the table below.

In order to install a proper aseptic process piping system, it is important that the correct and consistent international tube end standards be followed throughout said aseptic process piping system. If the connecting tube ends are not identical and of the same diameter standard, performance reduction in the process piping system may occur, or the ability of self draining ends is not guaranteed. The most common standard connection is the butt-welding of the tube endings without any additional material. Examples of butt welding include automatic and orbital welding.

Besides the standard any customer-specified connection type is possible.

Some examples are displayed on the following pages.



Butt weld Tube End Standard	ISO 1127	DIN 11850	DIN	ASTM 269	BS O.D.	SMS	JIS G	JIS G
		Series 1 Series 2	Selection	ASME BPE	4825	3008	3447	3459
	DIN 11866 Series B	DIN 11866 Series A		DIN 11866 Series C				
Code	40	41 42	39	45 ¹	94	49	97	98 ³
DN NPS MA L(min) L1 h1 h2	ød x s	ød x sød x s	ød x s	ød x s	ød x s	ød x s	ød x s	ød x s

Valve Type Manually Operated	205 / 206 / 290	/297
VIL T D		

	valve type rheumatically Operated 1707 2077 217														
4	-	8	20	72	9	9	-	-	-	6x1,0	-	-	-	-	-
6	-	8	20	72	9	9	-	-	8x1,0 ²	8x1,0	-	-	-	-	10,5x1,2
8	1/4	8	20	72	9	9	13,5x1,6	-	10x1,0 ²	10x1,0	6,35x0,89	-	-	-	13,8x1,65
10	3/8	8	20	72	9	9	-	12x1,0	13x1,5	-	9,53x0,89	-	-	-	-
15	1/2	8	20	72	9	9	-	-	-	-	12,7x1,65	12,7x1,2	-	-	-

	Valve Type Manually Operated 289 / 295 / 397 Valve Type Pneumatically Operated 188 / 195 / 317 / 392 / 394														
8	8 - 10 25 108 12 12 13,5x1,6														
10	3/8	10	25	108	12	12	17,2x1,6	12x1,0	13x1,5	-	9,53x0,89 ³	-	-	-	17,3x1,65
15	1/2	10	25	108	12	12	21,3x1,6	18x1,0	19x1,5	18x1,5	12,7x1,65	12,7x1,2	-	-	21,7x2,1
20	20 3/4 10 25 108 12 12 23x1,5 22x1,5 19,05x1,65 19,05x1,2														

	Valve Type Manually Operated 905 / 907 / 982 / 985 / 995 /997 Valve Type Pneumatically Operated 385 / 395 / 402 / 407/ 417 / 495 / 592														
15	-	25	25	120	13	16	21,3x1,6	18x1,0	19x1,5	-	12,7x1,65 ³	-	-	-	21,7x2,1
20	3/4	25	25	120	16	16	26,9x1,6	22x1,0	23x1,5	-	19,05x1,65	-	-	-	27,2x2,1
25	1	25	25	120	19	19	33,7x2,0	28x1,0	29x1,5	28x1,5	25,4x1,65	-	25,0x1,2	25,4x1,2	-
32															
40	1 1/2	40	25	153	24	26	48,3x2,0	40x1,0	41x1,5	-	38,1x1,65	-	38,0x1,2	38,1x1,2	-
50	2	50	30	173	32	32	60,3x2,0	52x1,0	53x1,5	-	50,8x1,65	-	51,0x1,2	50,8x1,5	-
65	2 1/2	50	30	173	32	32	-	-	-	-	63,5x1,65	-	63,5x1,6	63,5x2,0 ³	-
65	2 1/2	80	25	216	47	47	76,1x2,0	-	70x2,0	-	63,5x1,65	-	63,5x1,6	63,5x2,0 ³	-
80	3	80	30	254	47	47	88,9x2,3	-	85x2,0	-	76,2x1,65	-	76,1x1,6	76,3x2,0	-
100	4	100	30	305	61	58	114,3x2,3	-	104x2,0	-	101,6x2,11	-	101,6x2,0	101,6x2,1	-
125	5	150	30	450	100	90	139,7x2,6	-	129x2,0	-	-	-	-	-	-
150	6	150	30	450	100	96	168,3x2,6	-	154x2,0	-	152,4x2,77	-	-	-	-

Dimensions in mm; MA = Diaphragm size / Upon request, other tube end standards are available / Preferred standards bold

¹ ASTM 269 ASME BPE tube diameter (Code 45) in forged version optional also available in tube end length according ASME BPE (Code 95); Tube Size 1/4" to 2 1/2" L = 1,5" (38,1 mm); Tube Size 3" L = 1,75" (44,45 mm); Tube Size 4" L = 2" (50,8 mm); Tube Size 6" L = 2,5" (63,5 mm)

²DIN 11866 only

³ Available only in forged design



Clamps

Dimensions Inch

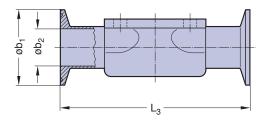
Clamp connections are the most popular connection for easy assembly and breakdown of process lines and valves. Clamp end connections are designed for a face-to-face joint that is leak proof and free of crevices.

The clamp end has a machined beveled seat and is used with specifically formed sealing gaskets made of EPDM or PTFE.

The gasket is inserted between the opposing clamp ends and is tightened with a wing nut quick disconnect clamp. In general, valve clamps ends are welded to the valve butt weld ends and polished according to the specified interior valve body surface finish. Welded clamp ends are 100% visually inspected and compression tested. Clamp connections are available for all current pipe standard diameters.

If the connecting clamp ends are not identical and of the same diameter standard, there may be a reduction or step in the process piping system, or the ability of self draining ends is not guaranteed.

If assembled correctly, the clamp end process system offers a smooth, crevice-free, self-aligning joint that reduce the hazards of contamination and minimizes turbulence and pressure drop in the system.



Tube E	End Iden			SME BP		ASME BPE ASME BPE					
Code	FtF			645			545				
	ard FtF		DIN	I EN 55	0 1	ASME BPE DT-V-1					
DN	NPS	MA	L ₃	b ₂	bı	L ₃	b ₂	bı			
8	1/4	8	-	-	-	2,5	0,18	1			
10	3/8	8	-	-	-	2,5	0,31	1			
	•	-	0.5	0.07	1		,	-			
15	1/2	8	2,5	0,37	1	2,5	0,37	1			
10	3/8	10	-	-	-	-	-	-			
15	1/2	10	4,25	0,37	1	3,5	0,37	1			
20	3/4	10	4,60	0,62	1	4,0	0,62	1			
20	5/4	10	4,00	0,02	1	4,0	0,02	1			
	- /0				-						
15	1/2	25	4,25	0,37	1	4,0	0,37	1			
20	3/4	25	4,60	0,62	1	4,0	0,62	1			
25	1	25	5,00	0,87	2	4,5	0,87	2			
32	1 1/4	40	-	-	-	-	-	-			
40	11/2	40	6,25	1,37	2	5,5	1,37	2			
50	2	50	7,50	1,87	2,5	6,25	1,87	2,5			
65	2 1/2	80	8,50	2,37	3	*8,75	2,37	3			
80	3	80	10,00	2,87	3,5	8,75	2,87	3,5			
100	4	100	12,00	3,83	4,5	11,5	3,83	4,5			
			,			,					

Dimensions mm

Dimens	ions mm																
Tube E	Clamp End Ident. Tube End Ident. Code Face to face (FtF)		Simil I	lar IS SO 112	O 2852 7	DIN 32676 DIN 11850			SME BP		-	SME BP	-	SMS 3017 SMS 3008			
Code F	ace to fac	e (FtF)		640		(641/64	2		645			545			649	
Stando	ard FtF		DIN	I EN 55	8-1	DIN EN 558-1			DIN	I EN 55	8-1	ASME	BPE DT-	4.4.1-1	DIN EN 558-1		
DN	NPS	MA	L ₃	b ₂	b1	L ₃	b ₂	b1	L ₃	b ₂	b1	L ₃	b ₂	bı	L ₃	b ₂	b1
8	1/4	8	*63,5	10,3	25,0	-	-	-	-	-	-	63,5	4,57	25,0	-	-	-
10	3/8	8	-	-	-	*63,5	10,0	34,0	-	-	-	63,5	7,75	25,0	-	-	-
15	1/2	8	-	-	-	-	-	-	*63,5	9,40	25,0	63,5	9,40	25,0	-	-	-
10	3/8	10	108,0	14,0	25,0	108,0	10,0	34,0	-	-	-	-	-	-	-	-	-
15	1/2	10	108,0	18,1	50,5	108,0	16,0	34,0	108,0	9,40	25,0	88,9	9,40	25,0	-	-	-
20	3/4	10	-	-	-	117,0	20,0	34,0	117,0	15,75	25,0	101,6	15,75	25,0	-	-	-
15	1/2	25	108,0	18,1	50,5	108,0	16,0	34,0	108,0	9,40	25,0	101,6	9,40	25,0	-	-	-
20	3/4	25	117,0	23,7	50,5	117,0	20,0	34,0	117.0	15,75	25,0	101,6	15,75	25,0	-	-	-
25	1	25	127,0	29,7	50,5	127,0	26,0	50,5	127,0	22,10	50,5	114,3	22,10	50,5	127,0	22,6	50,5
32	11/4	40	146,0	38,4	50,5	146,0	32,0	50,5	146,0	28,45	50,5	139,7	28,45	50,5	146,0	31,3	50,5
40	11/2	40	159,0	44,3	64,0	159,0	38,0	50,5	159,0	34,80	50,5	139,7	34,80	50,5	159,0	35,6	50,5
50	2	50	190,0	56,3	77,5	190,0	50,0	64,0	190,0	47,50	64,0	158,8	47,50	64,0	190,0	48,6	64,0
65	21/2	80	216,0	72,1	91,0	216,0	66,0	91,0	216,0	60,20	77,5	*222,3	60,20	77,5	216,0	60,3	77,5
80	3	80	254,0	84,3	106,0	254,0	, 81,0	106,0	254,0	72,90	91,0	222,3	72,90	91,0	254,0	72,9	<i>9</i> 1,0
100	4	100	305,0	109,7	130,0	305,0	100,0	119,0	305,0	97,38	119,0	292,1	97,38	119,0	305,0	97,6	119,0
*1		. .			محماليت												

*Length differing from standard; other lengths on request

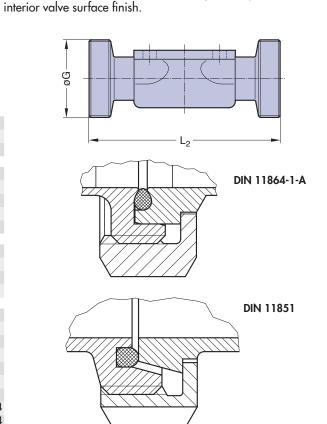
Aseptic Connections



Threaded spigot, liner and the interjacent seal are compressed with a spigot nut.

- Milk-threaded ends DIN 11851 with form sealing
- Aseptic connection according to DIN 11864-1 A with partly open o-ring for optimized cleaning features and a reduced dead leg. The threaded spigot, the liner and the interjacent o-ring are compressed against a metallic block with a spigot nut.

L in m	n		DII	N 11851	DIN	11864-1-A
			C	ode 8.	C	Code 4
DN	NPS	MA	L ₂	G	L ₂	G
4	-	8	-	-	-	-
6	-	8	-	-	-	-
8	1/4	8	-	-	-	-
10	3/8	8	92	Rd 28 x 1/8	92	Rd 28 x 1/8
15	1/2	8	-	-	-	-
8	1/4	10	-	-	-	-
10	3/8	10	118	Rd 28 x 1/8	118	Rd 28 x 1/8
15	1/2	10	118	Rd 34 x 1/8	118	Rd 34 x 1/8
20	3/4	10	-	-	-	-
15	1/2	25	118	Rd 34 x 1/8	120	Rd 34 x 1/8
20	3/4	25	118	Rd 44 x 1/6	144	Rd 44 x 1/6
25	1	25	128	Rd 52 x 1/6	164	Rd 52 x 1/6
32	11/4	40	147	Rd 58 x 1/6	192	Rd 58 x 1/6
40	11/2	40	160	Rd 65 x 1/6	214	Rd 65 x 1/6
50	2	50	191	Rd 78 x 1/6	244	Rd 78 x 1/6
65	21/2	80	246	Rd 95 x 1/6	314	Rd 95 x 1/6
80	3	80	256	Rd 110 x 1/4	342	Rd 110 x 1/4
100	4	100	-	-	-	Rd 130 x 1/4



Connections are available for the current pipe standards

The threaded spigot and liner are welded with the pipe ends

and the weld seam is polished according to the specified

within the aseptic application.

Aseptic Flanges

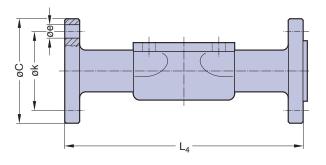
Aseptic flanges according to DIN 11864-2 Form A are connections with a partly open o-ring for optimized cleaning features and a reduced dead leg. The round flange and the groove flange are welded with the pipe ends and the weld seam is polished according to the specified interior valve body surface finish.

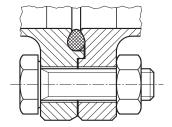


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					864-2-A	
				Code 3	8 (mm)	
DN	NPS	MA	L ₄	С	k	е
10	3/8	10	130	54	37	ø 9
15	1/2	25	130	59	42	ø 9
20	3/4	25	150	64	47	ø 9
25	1	25	160	70	53	ø 9
32	11/4	40	180	76	59	ø 9
40	11/2	40	200	82	65	ø 9
50	2	50	230	94	77	ø 9
65	21/2	80	290	113	95	ø 9
80	3	80	310	133	112	ø 11
100	4	100	350	159	137	ø11

Connections are available for the current pipe standards within the aseptic application. The round flange and the groove flange are welded orbital with the pipe endings and the weld seam is polished mechanically according to the valve body.





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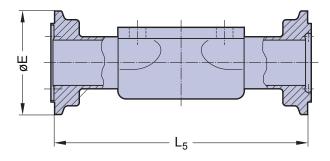
Aseptic Connections

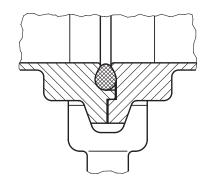


Aseptic connection according to DIN 11864-3 with partly open o-ring for optimized cleaning features and a reduced dead leg. The aseptic clamp with groove, the aseptic clamp with collar and the interjacent o-ring are compressed against a metallic block with a closure clamp.

Connections are available for the current pipe standards within the aseptic application. The aseptic clamp with groove and the aseptic clamp with collar are welded with the pipe ends and the weld seam is polished according to the specified interior valve surface finish.







			DIN 11	864-3
DN	NPS	MA	L5	E
10	3/8	8	63,5	34
10	3/8	10	108	34
15	1/2	10	108	34
20	3/4	10	117	42
15	1/2	25	108	34
20	3/4	25	117	42
25	1	25	127	42
32	11/4	40	146	42
40	1 1/2	40	159	54
50	2	50	190	62
65	21/2	80	216	78
80	3	80	254	93
100	4	100	305	115



Manually operated 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

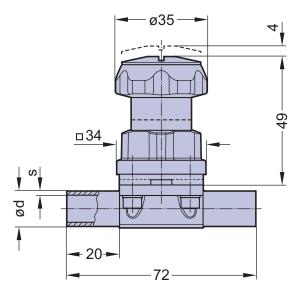
Optional

- Locking device

Technical Data ا امید

lechnical Dala	
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.



Valve type overview see page 26 and 27. Ordering key see page 66 to 68.

Butt weld ends MA 8 Fold out page 21

Steripur 397





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

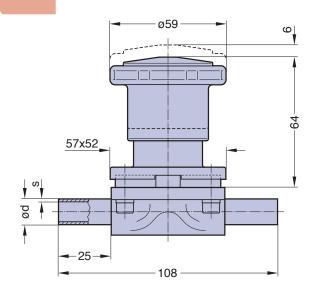
Optional

- Locking device

Technical Data Control function: Max. working pressure:	Manually operated 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.





Manually operated 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

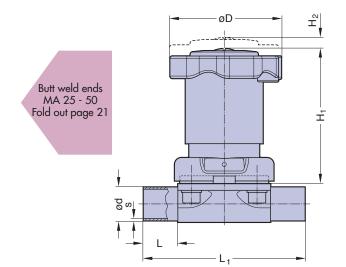
Optional

- 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.				

Technical data also valid for multiport valve.



DN (mm)	MA		Dime	ensions	Total weight ca. (kg) Steripur 907			
. ,		L	Lı	Η _l	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

Steripur 997



Manually operated Valve DN 65 - 100 mm (3/4" - 4")



DN 65 - 100

Features

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

Optional

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

Technical Data				
Control function:	Manually operated			
Max. working pressure:	10 bar (150 psi)			
	DN 65-100 diaphragm 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.				

øD ŕ Butt weld ends MA 25 - 100 Fold out page 21 Ŧ ŝ – pø -L

DN 65 - 100 (Drawing MA 80)

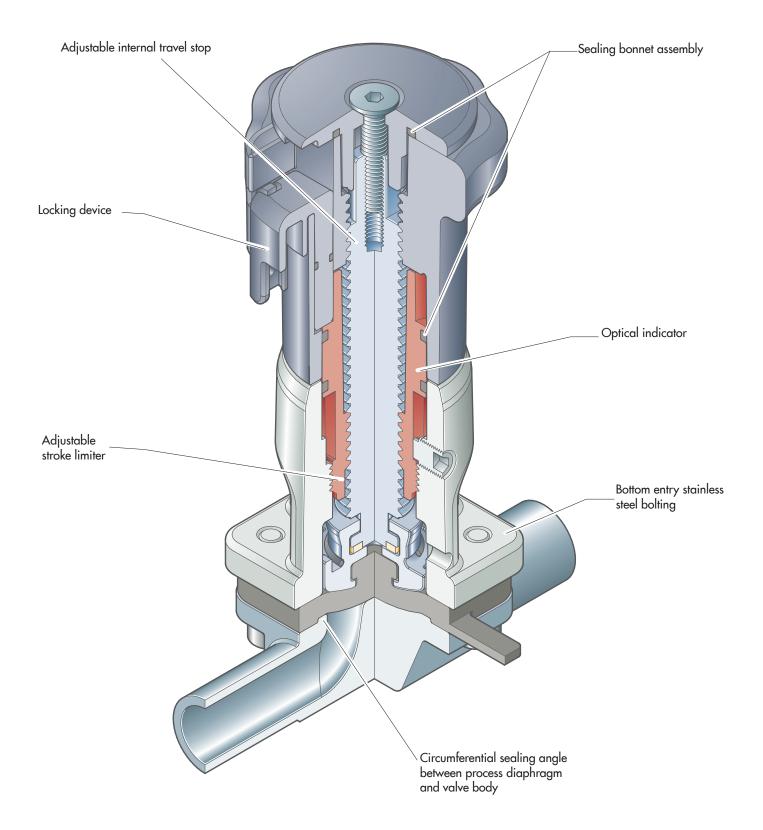
DN			Dim	ensions	Total weig	ht ca. (kg)		
(mm)	MA	L	Lı	H ₁	H ₂	D	Investment	Forged
							cast	
65	80	30	216	180	38	198	13,0	15,0
80	80	30	254	180	38	198	13,0	15,0
100	100	30	305	220	50	252	22,0	20,0

Valve type overview see page 26 and 27. Ordering key see page 66 to 68.

	Other Alloys
End connection:	Butt weld ends see fold out page 2
	Clamps and flanges see page 22 t
	Special ends
Bonnets suitable for:	Two-Way bodies
	Welded configurations
	T- bodies
	Multiport bodies
	Tank bottom bodies
Flow rate:	Ky in m ³ /h (Cy in GPM) see page
Diaphragm size:	MA see table

Tec







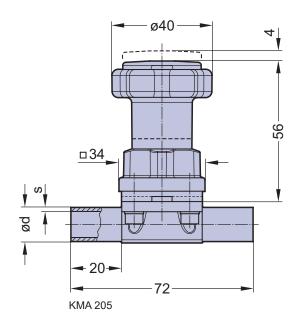


KMA 205, S03





KMA 205, S02



Features

- Stainless steel bonnet and plastic hand wheel
- Manually operated 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 SO2

- Adjustable internal stroke limiter
- Locking device

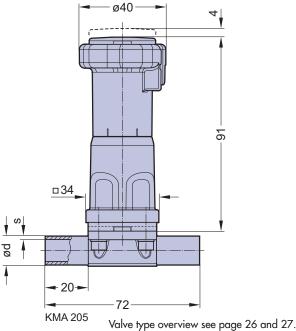
Optional features S02

- 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

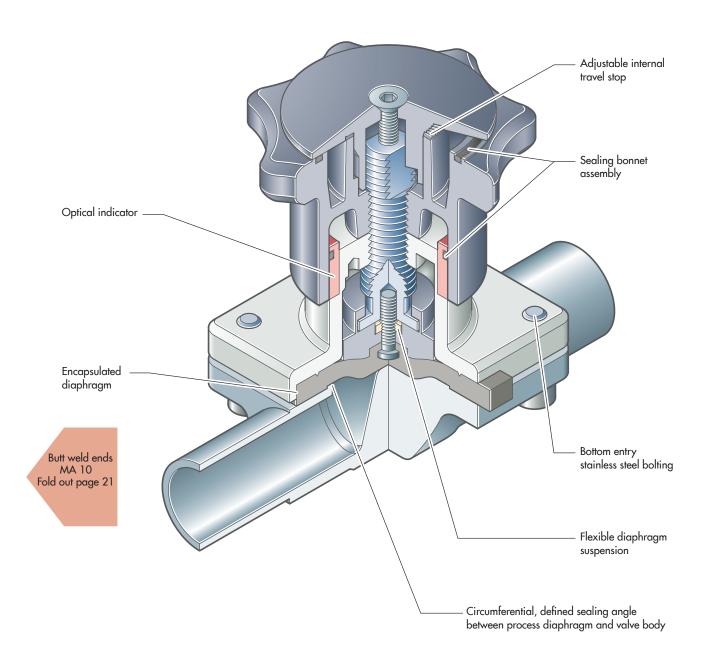
Technical data also valid for multiport valve.



Ordering key see page 66 to 68.



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





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



Features

- Stainless steel bonnet and plastic hand wheel

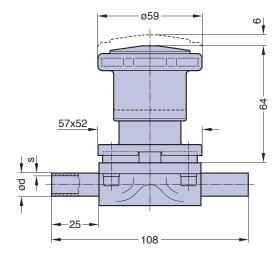
- Manually operated diaphragm Valve with plastic hand wheel is suitable for a limited number of cycles of autoclaving.
- Rising hand wheel
- Sealed bonnet with optical indicator
- Adjustable internal travel stop
- CDSA sealing concept, see page 32
- Flexible diaphragm suspension
- Encapsulated diaphragm

Technical Data

Control function: Max. working pressure:	Manually operated 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. 0,6 kg			
Technical data also valid for multiport valve				

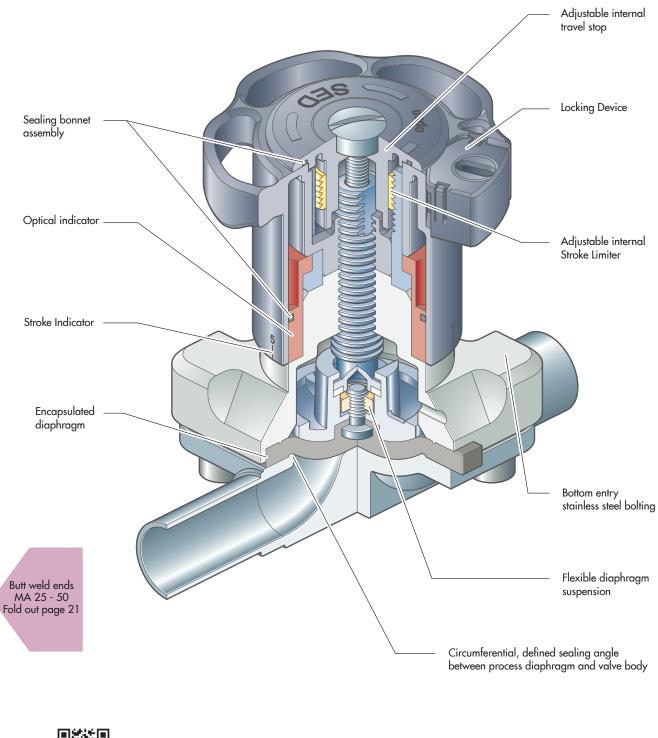
Technical data also valid for multiport valve.







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





Introduction Video https://www.youtube.com/channel/UCLbTtlLODsUzPKCQAcP7Lkw





KMA 905, S11

Features

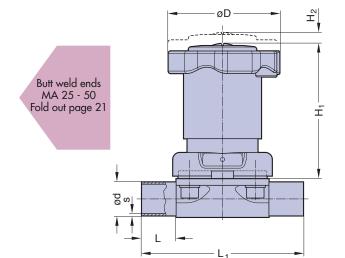
- Stainless steel bonnet and plastic hand wheel
- Manually operated diaphragm Valve with plastic hand wheel is suitable for a limited number of cycles of autoclaving.
- Rising hand wheel with optical indicator and stroke indicator
- Sealed bonnet
- Internal travel stop
- Locking device
- CDSA sealing 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.
	1



DN (mm)	ма	Dimensions (mm)					Total weig KMA	
		L	Lı	Hı	H ₂	D	Investment cast	Forged
15-25	25	25	120	100	10	84	1,4	1,6
32-40	40	25	153	119	16	112	2,8	3,0
50	50	30	173	136	20	135	3,8	4,6

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



DN 80, KMA 995

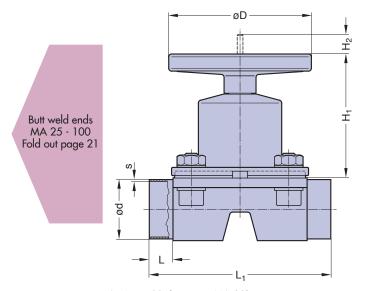
Features

- 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.				



DN 65 - 100 (Drawing MA 80)

DN		Dimensions (mm)				Total weight ca. (kg)		
(mm)	MA	L	Lı	H1	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