Stainless Steel Diaphragm Valves

The innovative line of products for future-oriented technologies in the life science, biotechnology, cosmetic and food industries

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Perfectly adapted valve bodies, diaphragms, bonnets and actuators

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our General Conditions of Supply.

The ingenious design of these diaphragm valves guarantees reliable operation even under extremely demanding conditions. Valve bodies, diaphragms, bonnets and actuators are perfectly adapted; the diaphragm or other single parts are easy to replace. Depending on the application, the bonnet shell is available in stainless steel, cast iron or plastic. Diaphragm valves are ideal for CIP and SIP processes.

Reliable control for demanding processes

Stainless steel diaphragm valve - Hot Water Sanitization

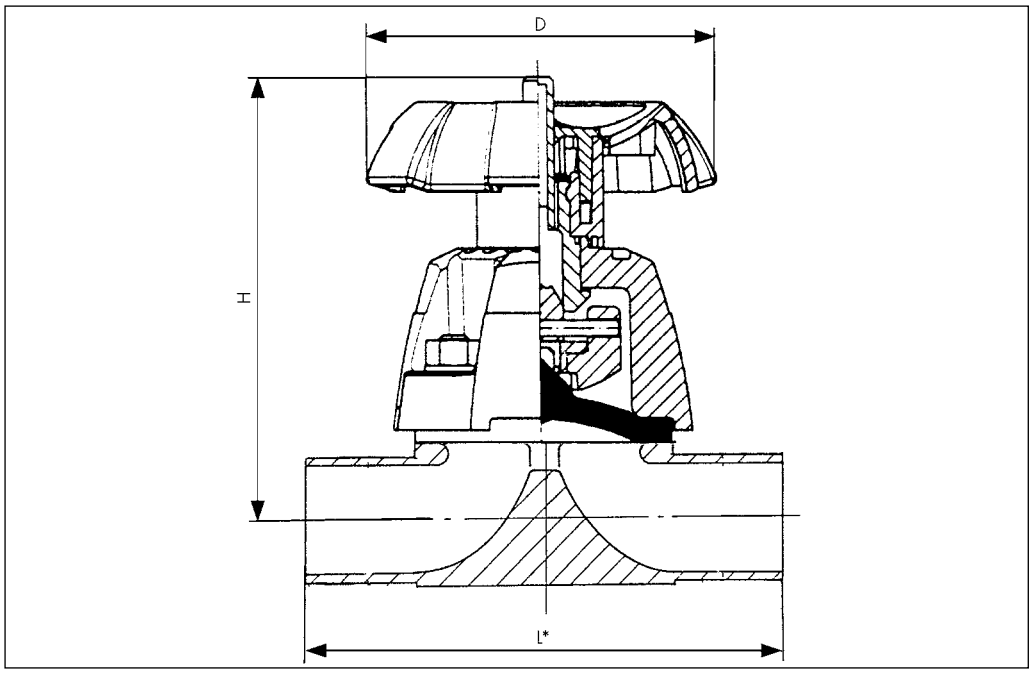
The stainless steel diaphragm valve is a manually operated diaphragm valve with a plastic bonnet. In addition to the compact design and the position indicator in standard versions, the valve locking option is a valuable extra, useful in all types of diaphragm valve applications.

Product Features

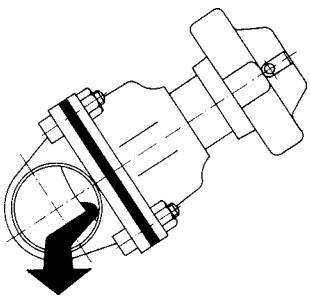
- **Compact, manually operated bonnet in plastic**
- **Light weight**
- **Low torque for easy operation**
- **Sturdy position indicator**
- **Ergonomic hand-wheel**
- **«Clip hand wheel» – easy to remove**

Technical data

Nominal diameter:	DN15–DN80
Valve body:	Forged stainless steel 1.4435/316L or precision casting CF3M/316L
Diaphragms:	Elastomers or PTFE
Bonnet:	Polypropylene, (PPGF
Hand wheel:	Polypropylene (PPGF/casted stainless steel on request)
Working pressure:	max.10bar
Working temperature:	max.85 °C
Ambient temperature:	max.30°C



Self-draining position



Installation angle
(Depending on dimension)15–45°

Dimensions and Weights

DN mm	D	H	Weight kg	
15	80	90	0.5	
20	80	102	0.9	
25	94	118.5	1.4	
40	117	139	3.0	
50	152	172	4.2	
65		on request		
80		on request		

Stainless steel diaphragm valve Steam Sanitization

Description

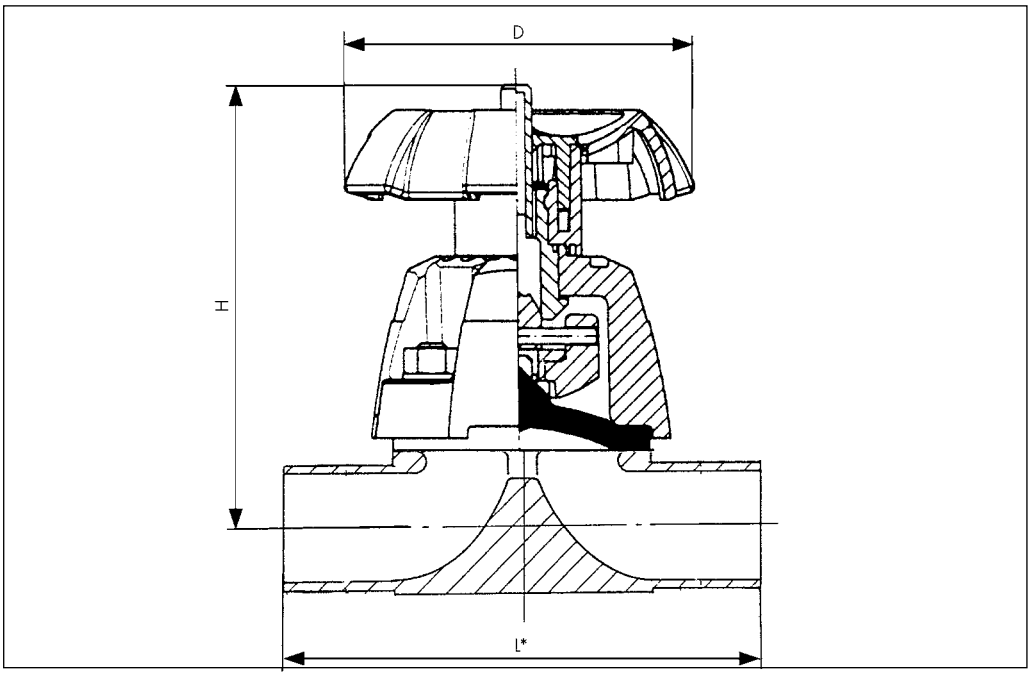
The ST 195-MA stainless steel diaphragm valve is a manually operated diaphragm valve with a plastic bonnet. In addition to the compact design and the position indicator in standard versions, the valve locking option is a valuable extra, useful in all types of diaphragm valve applications.

Technical data

Nominal diameter:	DN15-DN80
Valve body:	Forged stainless steel 1.4435/316L or precision casting CF3M/316L
Diaphragms:	Elastomers or PTFE
Bonnet:	Polypropylene, fiberglass reinforced (PP-GF 30)
Hand wheel:	Polypropylene (PPS/casted stainless steel on request)
Working pressure:	max. 10 bar
Working temperature:	max. 130 °C

Product Features

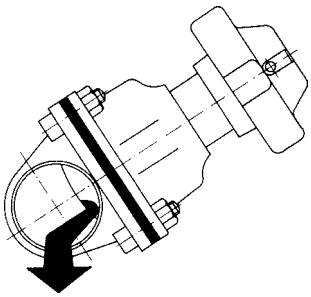
- **Compact, manually operated bonnet in plastic**
- **Lightweight**
- **Low torque for easy operation**
- **Sturdy position indicator**
- **Ergonomic hand-wheel**
- **«Clip handwheel» - easy to remove**
- **Accessory: locking set to lock the valve**
- **Variable flow direction and installation position**



Self-draining position

Dimensions and Weights

DN mm	D	H	Weight kg	
15	80	90	0.5	
20	80	102	0.9	
25	94	118.5	1.4	
40	117	139	3.0	
50	152	172	4.2	
65		on request		
80		on request		



Installation angle (Depending on dimension)15–45°

Stainless steel diaphragm valve - Hot Water Sanitization

This compact diaphragm valve is low- maintenance, has a pneumatic actuator in plastic,and is available in the fail safe to open,fail safe to close and double acting modes of operation. The pneumatic actuators are available in sizes 025 - → 10 bar ← both sides / 028 - → 10 bar at one side. The 028, which is dimensionally reduced to a minimum,is especially suited to applications where space is limited. A wide range of accessories, such as electrical feedback unit, positioner or stroke limiter, allow optimal adaptation to all types of control tasks.
* ASI interface can be given.

Product Features

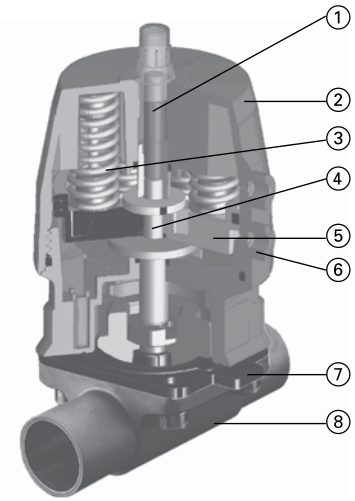
- **Compact, pneumatic actuator in plastic**
- **Lightweight**
- **Fail safe to open, fail safe to close or double acting modes of operation**
- **Position indicator is standard**
- **Low maintenance**
- **Wide selection of accessories: electrical feedback unit, stroke limiter and positioner**
- **Variable flow direction and installation position**
- **Autoclavable**

Technical data

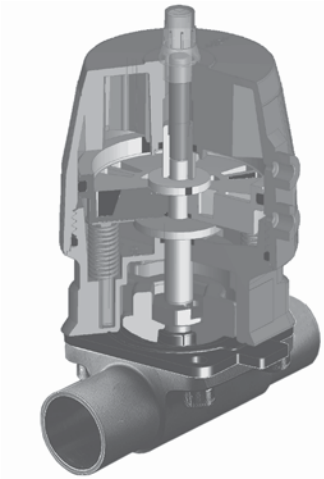
Nominal diameter:	DN15–DN80
Valve body:	Forged stainless steel 1.4435/316L or precision casting CF3M/316L
Diaphragms:	Elastomers or PTFE
Actuator housing DN15–DN50:	CoPAGF
Actuator housing DN65/DN80:	PP-GF
Working pressure:	max.10 bar (025 - → 10 ← / 028 - → 10)
Working temperature:	max.85°C
Control medium:	Compressed air (oil-free)/neutral, non-aggressive gases, max.60°C
Max. permissible control pressure:	6 bar for FC(fail safe spring to close) mode, 5 bar for FO (fail safe spring to open) and DA (double acting) modes

Valve design (DN15–DN50)

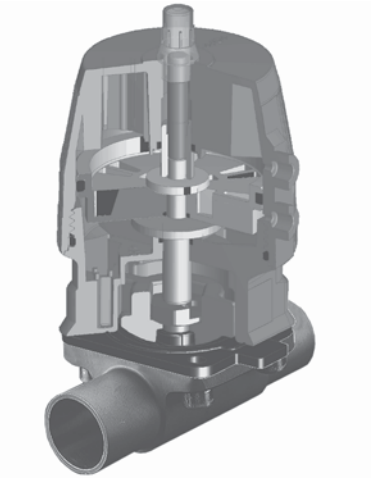
1. Optical position indicator
2. All-plastic housing are PPGF and housing bottom of stainless steel
3. Preloaded spring sets
4. Lifting spindle assembly of stainless steel
5. CoPA pistons
6. Connection for control air
7. Diaphragm
8. Stainless steel valve body



Fail safe spring to close (FC)



Fail safe spring to open (FO)



Double acting (DA)

Stainless steel diaphragm valve Steam Sanitizied

This compact diaphragm valve is low- maintenance, has a pneumatic actuator in plastic,and is available in the fail safe to open,fail safe to close and double acting modes of operation.The pneumatic actuators are available in size 025 or 028.The 028, which is dimensionally reduced to a minimum,is especially suited to applications where space is limited. A wide range of accessories, such as electrical feedback unit, positioner or stroke limiter, allow optimal adaptation to all types of control tasks.
* ASI interface can be given.

Technical data

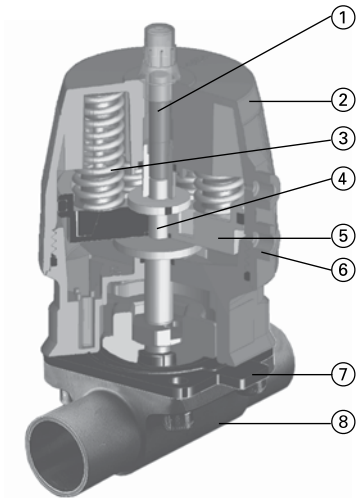
Nominal diameter:	DN15–DN80
Valve body:	Forged stainless steel 1.4435/316L or precision casting CF3M/316L
Diaphragms:	Elastomers or PTFE
Actuator housing DN15–DN50:	CoPAGF
Actuator housing DN65/DN80:	PP-GF
Working pressure:	max.10 bar (025 - → 10 ← / 028 - → 10)
Working temperature:	max.150°C for actuator housing in CoPA max.130°C for actuator housing in PP
Control medium:	Compressed air (oil-free)/neutral, non-aggressive gases, max.60°C
Max. permissible control pressure:	6 bar for FC(fail safe spring to close) mode, 5 bar for FO (fail safe spring to open) and DA (double acting) modes

Product Features

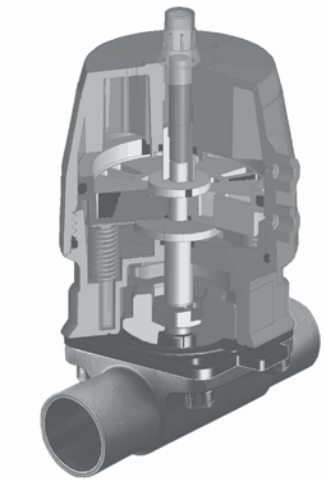
- **Compact, pneumatic actuator in plastic**
- **Lightweight**
- **Fail safe to open, fail safe to close or double acting modes of operation**
- **Position indicator is standard**
- **Low maintenance**
- **Wide selection of accessories: electrical feedback unit, stroke limiter and positioner**
- **Variable flow direction and installation position**
- **Autoclavable**

Valve design (DN15–DN50)

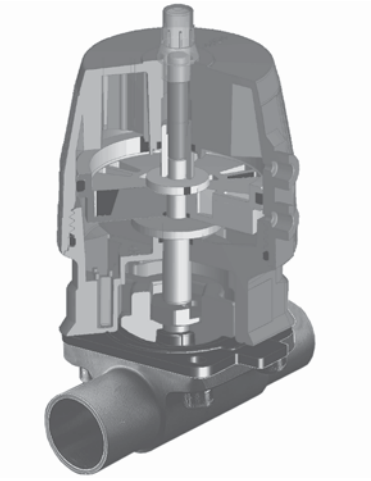
1. Optical position indicator
2. All-plastic housing of CoPA or housing top of CoPAGF and housing bottom of stainless steel
3. Preloaded spring sets
4. Lifting spindle assembly of stainless steel
5. CoPA pistons
6. Connection for control air
7. Diaphragm
8. Stainless steel valve body



Fail safe spring to close (FC)



Fail safe spring to open (FO)

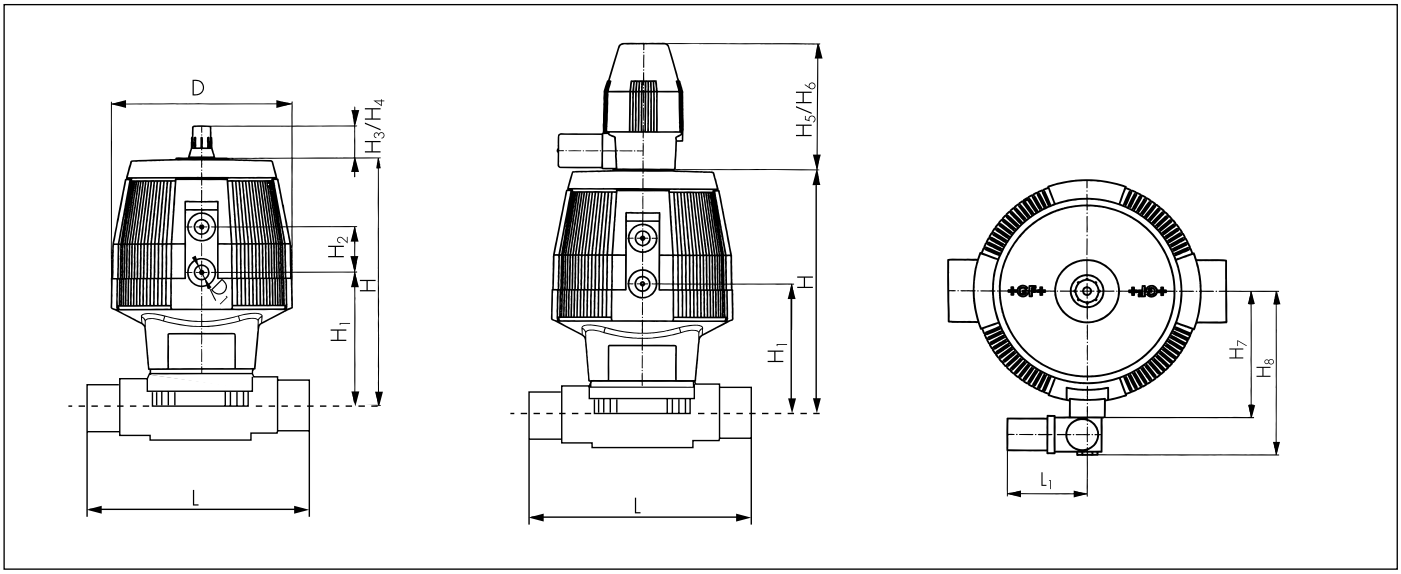


Double acting (DA)

Dimensions/Weights, Performance Diagrams, DN15–DN50

Mode: Fail safe spring to close (FC)
Control pressure: max. 6 bar
Diaphragms: Elastomers
Size: 028

Dimensions and Weights



Dimensions for end connections according to ASME BPE connection type
Body with V-band (Hygienic) Clamp Connector (Refer Figure 3)

Connection Size	Flange OD A (mm)	Pipe ID B (mm)	Face to Face Length C (mm)	Max. Valve Height from Pipe Center D (mm)	Outside Diameter of Actuator E (mm)
½" Mini	25.00	9.40	95.5	111.1	68.0
½" Regular	25.00	9.40	109.5	114.6	68.0
¾"	50.40	15.75	109.5	117.7	68.0
1"	50.40	22.10	133.5	161.4	96.0
1½"	50.40	34.80	156.5	234.3	151.0
2"	63.90	47.50	156.5	241.1	151.0
2½"	77.40	60.20	179.5	267.8	180.0
3"	90.90	72.90	179.5	273.7	180.0

Body with V-band (Hygienic) Clamp Connector (Refer Figure 4)

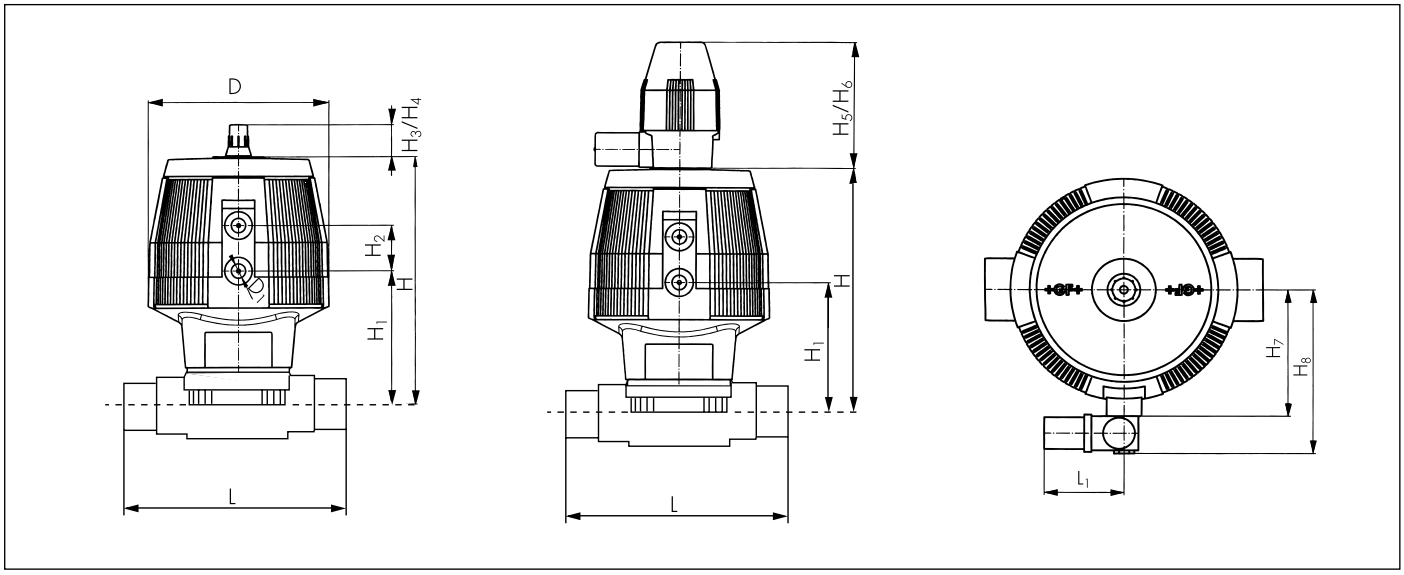
Connection Size	Pipe OD A (mm)	Pipe ID B (mm)	Face to Face Length C (mm)	Max. Valve Height from Pipe Center D (mm)	Outside Diameter of Actuator E (mm)
½" Mini	12.70	9.40	70.0	111.1	68.0
½" Regular	12.70	9.40	84.0	114.6	68.0
¾"	19.05	15.75	84.0	117.7	68.0
1"	25.40	22.10	108.0	161.4	96.0
1½"	38.10	34.80	131.0	234.3	151.0
2"	50.80	47.50	131.0	241.1	151.0
2½"	63.50	60.20	154.0	267.8	180.0
3"	76.20	72.90	154.0	273.7	180.0

Notes:
1. For V-band (Hygienic) clamp connections, clamp connector will be welded to the valve body with butt-weld end. Internal finish will be provided as per customer's request.
2. Dimensions and tolerances for end connection and face-to-face length are as per ASME BPE.
3. All other dimensions are approximate and subject to change without prior notice.

Dimensions/Weights, Performance Diagrams,

Mode:	Fail safe spring to open, double acting (FO,DA)
Control pressure:	max. 5 bar
Diaphragms:	all materials
Size:	025

Dimensions and Weights



Fail safe spring to open/double acting (FO/DA)

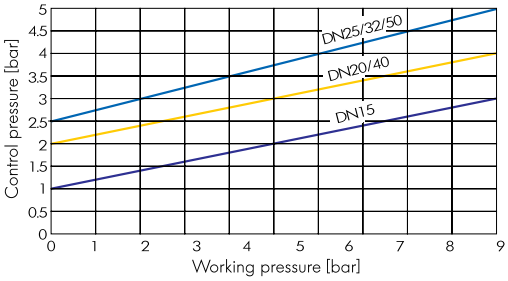
DN mm	D mm	D_1 G	H mm	H_1 mm	H_2 mm	H_3 mm	H4[1] mm	H5 mm	H6[1] mm	H7 mm	Ha mm	L* mm	L_1 mm	Lift mm	Weight kg
15 (EPDM)	67	1/8"	98	58.5	24	22.5	46	100	155	41 .5	73.5		60	8	3.2
15 (PTFE)	94	1/8"	125	68.5	25	22.5	46	100	155	54	86		60	6	3.2
20	94	1/8"	127	70.5	25	22.5	46	100	155	54	86		60	10	3.4
25	94	1/8"	141	84.5	25	22.5	46	100	155	54	86		60	12	3.6
32	116	1/8"	167	97	26	35.5	65	100	160	65	97		60	14	4.8
40	145	1/4"	198	107.5	36	35.5	65	100	170	81	113		60	18	5.6
50	145	1/4"	216	125.5	36	35.5	65	100	170	81	113		60	22	6.6

[1] = with stroke limiter / manual override

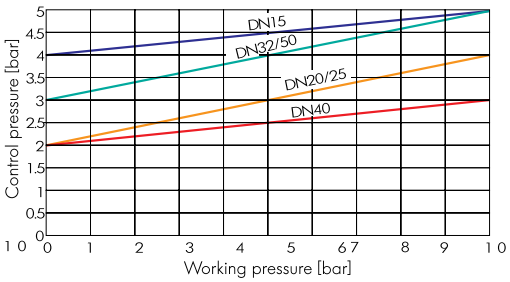
*L = for valve bodies see pages 17-18

Control/Working Pressure Diagrams

Fail safe spring to open/double acting (FO/DA) with EPDM diaphragm



with PTFE diaphragm



Maximum working pressure

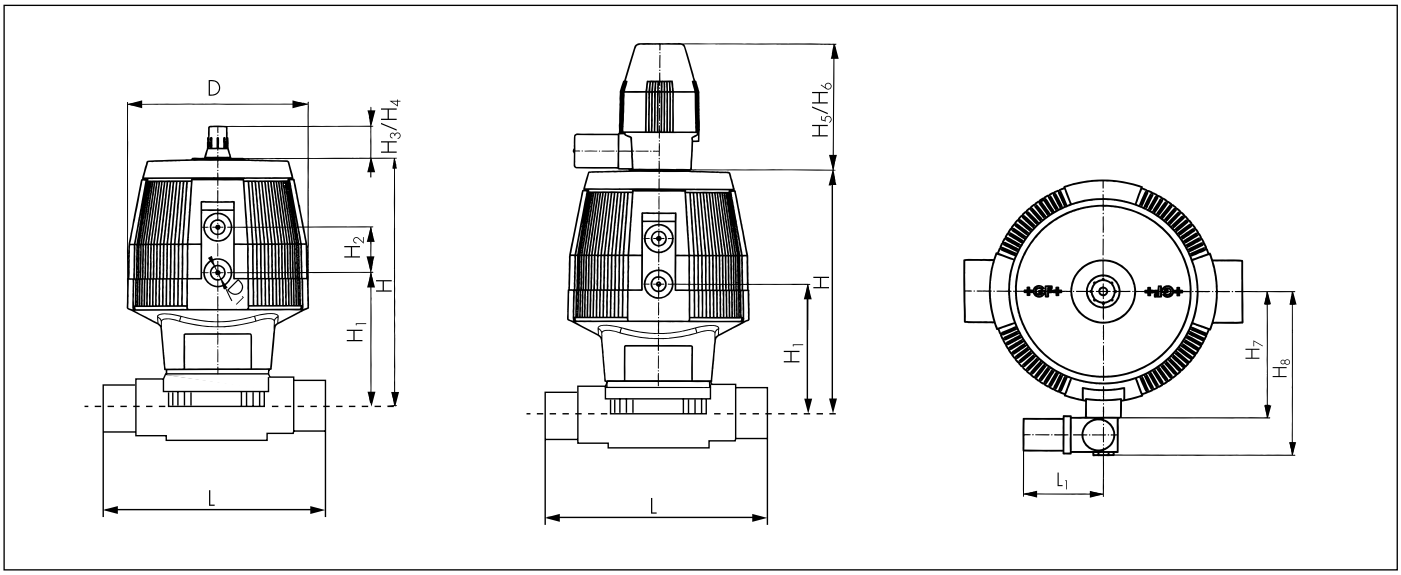
DN	Diaphragms			
	EPDM		PTFE	
mm	→	→←	→	→←
15	10	10/9	10	10/9
20	10	10/9	10	10/9
25	10	10/9	10	10/9
32	10	10/9	10	10/9
40	10	10/9	10	10/9
50	10	10/9	10	10/9

Working pressure on one side (→)
Working pressure on both sides (→←)

Dimensions/Weights, Performance Diagrams, DN15–DN50

Mode: Fail safe spring to close (FC)
Control pressure: max. 6 bar
Diaphragms: all materials
Size: 025

Dimensions and Weights



Dimensions for end connections according to ASME BPE connection type
Body with V-band (Hygienic) Clamp Connector (Refer Figure 1)

Connection Size	Flange OD A (mm)	Pipe ID B (mm)	Face to Face Length C (mm)	Max. Valve Height from Pipe Center D (mm)	Outside Diameter of Actuator E (mm)
½" Mini	25.00	9.40	63.5	111.1	68.0
½" Regular	25.00	9.40	88.9	114.8	68.0
¾"	25.00	15.75	101.6	117.6	68.0
1"	50.40	22.10	114.3	162.3	96.0
1½"	50.40	34.80	139.7	234.2	151.0
2"	63.90	47.50	158.8	240.4	151.0
2½"	77.40	60.20	193.8	267.7	180.0
3"	90.90	72.90	222.3	273.7	180.0

Body with V-band (Hygienic) Clamp Connector (Refer Figure 2)

Connection Size	Pipe OD A (mm)	Pipe ID B (mm)	Face to Face Length C (mm)	Max. Valve Height from Pipe Center D (mm)	Outside Diameter of Actuator E (mm)
½" Mini	12.70	9.40	63.5	111.1	68.0
½" Regular	12.70	9.40	84.0	114.8	68.0
¾"	19.05	15.75	84.0	117.6	68.0
1"	25.40	22.10	108.0	162.3	96.0
1½"	38.10	34.80	131.0	234.2	151.0
2"	50.80	47.50	131.0	240.4	151.0
2½"	63.50	60.20	154.0	267.7	180.0
3"	76.20	72.90	154.0	273.7	180.0

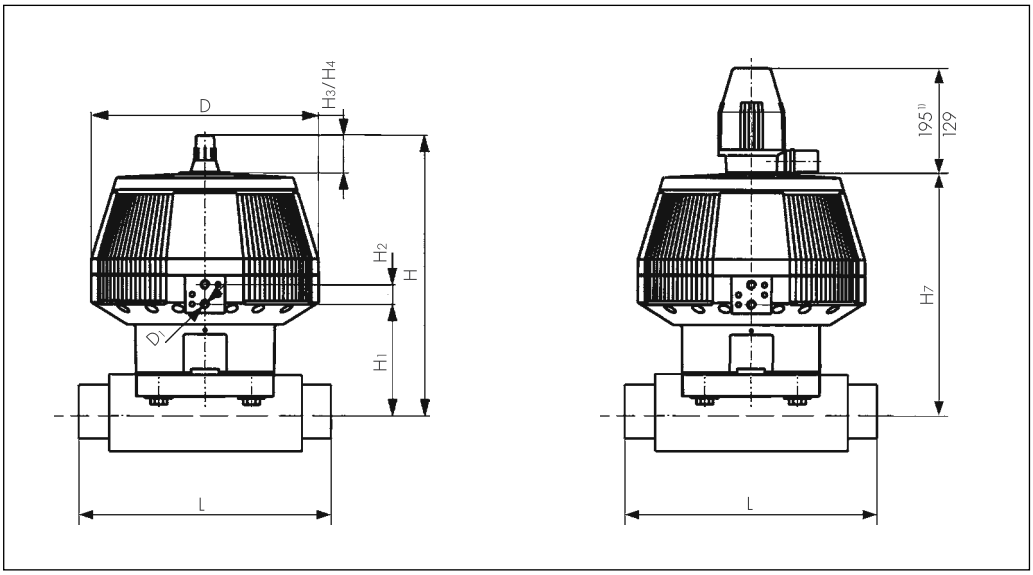
Notes:
1. Dimensions and tolerances for end connections and face-to-face length are as per ASME BPE.
2. All other dimensions are approximate and subject to change without prior notice.

Dimensions/Weights, Performance Diagrams, DN65-DN80

Mode: Fail safe spring to close, to open, double acting (FC,FO,DA) Control pressure:
max.6 bar for FC mode
max.5 bar for FO and DA modes

Diaphragms: all materials

Dimensions and Weights



Mode of operation (FC,FO,DA)

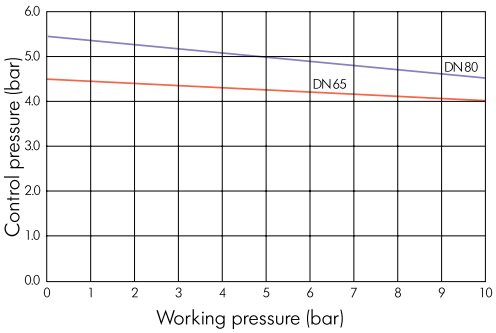
DN mm	D mm	D_1 G	H mm	H_1 mm	H_2 mm	H_3 mm	H4 1) mm	H7 mm	L* mm	Lift mm	Weight kg
65	280	1/4"	344	148	24	46	100	298		25	9.7
80	280	1/4"	348	150	24	46	100	302		35	11.8

1) = with stroke limiter / manual override

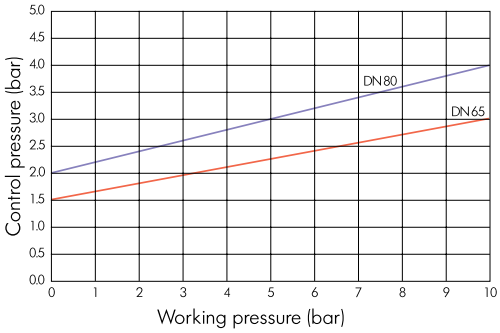
*L = for valve bodies see pages 17-18

Control/Working Pressure Diagrams

Fail safe spring to close (FC)



Fail safe spring to open/double acting (FO/DA)



Maximum working pressure

DN	Diaphragms			
	EPDM		PTFE	
mm	→	→←	→	→←
65	10	10/9	10	7/6
80	10	10/9	10	6/5

Working pressure on one side (→)
Working pressure on both sides (→←)

Accessories for pneumatic actuators, DN15-DN50

Electrical Feedback Unit, ER 52

Type	Type of switch		max. switch.capacity	Code	
ER 52–1	Microswitch	AG,Ni	250V~/6A	**199 190 305**	
ER 52–2	Microswitch with gold contact	Au	4–30V=/1–100mA	**199 190 306**	
ER 52–3	Inductive switch	NPN	4.75–30V=/0.1A	**199 190 307**	
ER 52–4	Inductive switch	PNP	4.75–30V=/0.1A	**199 190 308**	
ER 52–5	Inductive switch	Namur	8V=	**199 190 309**	

Complete adaptor kit

The complete adaptor kit must be used if the valve with stroke limiter/manual over ride is combined with the electrical feedback unit ER52.

Dimension	Mode FC,FO,DA Size 028	Mode FC Size 025
DN 15	**199 190 387**	**199 190 387**
DN 20	**199 190 387**	**199 190 387**
DN 25	**199 190 387**	**199 190 388**
DN 32	**199 190 388**	**199 19 0389**
DN 40	**199 190 389**	**199 190 389**
DN 50	**199 190 389**	**199 190 389**

Stroke limiter/Manual override

Dimension	Mode FC,FO,DA Size 028	Mode FC Size 025
DN 15	**199 190 381(EPDM)**	
	199 190 382(PTFE)	**199 190 382**
DN 20	**199 190 382**	**199 190 382**
DN 25	**199 190 382**	**199 190 383**
DN 32	**199 190 383**	**199 190 384**
DN 40	**199 190 384**	**199 190 385**
DN 50	**199 190 384**	**199 190 385**

Electric pneumatic positioner (for steam sanitisation actuators) Echardt/Sipart

Dimension	Service voltage	Code
EckhardtSRI986	single acting	**199 190 348**
EckhardtSRI986	double acting	**199 190 349**
Kit		**199 190 350**

Electric pneumatic positioner (for hot sanitisation actuators) DSR 500

Discreption	Service voltage	Code
Positioner DSR 500-1	single acting-FC- 24 v/dc	**199 190 001**
Positioner feedback card	4-20 ma feedback	**199 190 575**

Accessories for pneumatic actuators, DN65/DN80

Electrical Feedback Unit, ER53

Type	Type of switch		max. switch.capacity	code
ER53–1	Microswitch	AG,Ni	250 V ~ / 10A	**199 190 293**
ER53–2	Microswitch with gold contact	Au	4–30 V = / 1–100 mA	**199 190 297**
ER53–3	InductiveswitchwithLED	NPN	9.6–55 V= / 0.2A	**199 190 294**
ER53–4	Inductive switch with LED	PNP	9.6–55 V= / 0.2A	**199 190 295**
ER53–5	Inductive switch	Namur	8 V =	**199 190 296**
ER53–6	Microswitch	EExd	250 V ~ / 5A	**199 190 298**
ER53–7	Analog signal transmitter		15–30 V = 4–20 mA	**199 190 299**

Stroke limiter/Manual override

Dimension		Code
d75/DN65 d90/DN80	**Min./Max.strokelimiter,manualoverride**	**199190318**

Pilot valves (for all actuators)

Type PV94/ 95

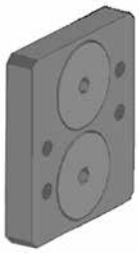
3/2-way solenoid valve to control single acting pneumatic actuators. Installed either via a base plate with hollow screw directly on the actuator or onto multiple manifolds.
Materials: body polyamide/brass, seals NBR, mode of operation C (fail safe to close).
Electrical connection: cable plug ISO/DIN 43650

Dimension	Service voltage	Code
Version for direct mounting PV -94	230 V,50–60Hz 115 V,50–60Hz 24V = 24 V, 50–60Hz	**199 19 0501** **199 190 500** **199 190 498** **199 190 499**
Version for direct mounting PV -95	230 V, 50 – 60 Hz 115 V, 50 – 60 Hz 24 V = 24 V, 50 – 60 Hz	**199 190 535** **199 190 534** **199 190 532** **199 190 533**
Multiple manifolds	for 4 valves for 6 valves for 8 valves	**199 190 271** **199 190 272** **199 190 273**
Blank plate		**199 190 274**
Cable plug with LED and Varistor	230 V, AC/DC 115 V, AC/DC 24 V, AC/DC	**198 806 122** **198 806 121** **198 806 123**

Type 5470

4/2-way solenoid valve to control double acting pneumatic actuators. Installed with a Namur adaptor plate. For dimensions DN15–50 a Namur adaptor plate must be installed between the actuator and the pilot valve.
Materials: body polyamide/brass, seals NBR, mode of operation G.
Electrical connection: cable plug ISO/DIN 43650

Dimension	Service voltage	Code
Version with Namur plate without throttle screw	230V,AC/DC 115V,AC/DC 24V,AC/DC	**199 190 302** **199 190 303** **199 190 304**



Adaptor plate NAMUR

Dimension	Mode FC,FO,DA Size 028	Mode FC Size 025
DN 15	**199 190 378**	**199 190 378**
DN 20	**199 190 378**	**199 190 378**
DN 25	**199 190 378**	**199 19 0378**
DN 32	**199 190 378**	**199 190 379**
DN 40	**199190379**	**199190379**
DN 50	**199190379**	**199190379**

Valve bodies

Description

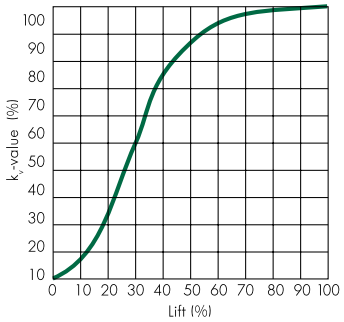
The valve bodies can be assembled to complete valves with all diaphragms, bonnets or pneumatic actuators in our product range. The quality of the surface finish corresponds to the particular requirements and application. Forged valve bodies can be supplied in all the connection types and dimensions.

Product Features

- **Buttweld ends according to all standards for manual and orbital fusion**
- **Seamless integrated clamp connections, sterile and dairy threads to all standards**
- **Zero static design**
- **Self-draining when positioned accordingly**
- **Ideal for CIP and SIP processes**
- **Practically turbulence free flow**
- **Special designs for individual requirements**

Flow characteristics

(average values for diaphragm valves)



Technical data

Nominal diameter:	DN8–DN80		
Version:	Stainless steel 316L	forged	investment
cast			
		1.4435	CF8M
	Δ -ferrite-content:	≤ 0.5 %	≤ 1.0 %
Surface finish:		Ra = 0.4 µm	Ra = 0.4 µm
(average roughness)			

Kv/Cv values (Pipe standard)

Lift	kv in l/min., Δp = 1 bar						
in %	DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80
100	70	146	218	684	1156	1571	2533
90	68	140	210	667	1116	1480	2515
80	67	133	201	625	1076	1445	2462
70	64	124	194	610	994	1365	2312
60	59	101	165	545	893	1210	2170
50	47	87	142	457	750	1044	1925
40	35	55	115	345	606	835	1565
30	22	43	65	310	424	625	845
20	17	20	25	180	222	280	401
10	5	7	14	50	64	125	195

Lift	Cv in US Gallons/min., Δp = 1 psi						
in %	DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80
100	4.9	10.2	15.3	47.9	81.0	110.0	177.4
90	4.8	9.8	14.7	46.7	78.2	103.6	176.1
80	4.8	9.3	14.1	43.8	75.4	101.2	172.4
70	4.5	8.7	13.6	42.7	69.6	95.6	161.9
60	4.1	7.1	11.6	38.2	62.5	84.7	152.0
50	3.3	6.1	9.9	32.0	52.5	73.1	134.8
40	2.5	3.9	8.1	24.2	42.4	58.5	109.6
30	1.5	3.0	4.6	21.7	29.7	43.8	59.2
20	1.2	1.4	1.8	12.6	15.5	19.6	28.1
10	0.4	0.5	1.0	3.5	4.5	8.8	13.7

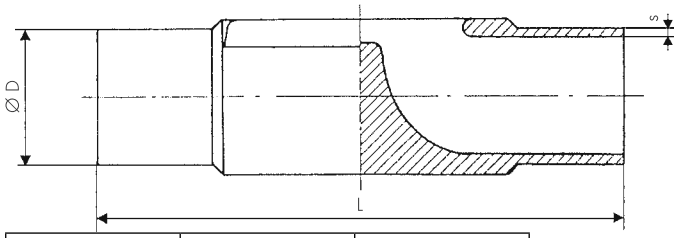
Kv/Cv values (Pipe standard)

Lift	kv in l/min., Δp = 1 bar						
in %	DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80
100	35	99	180	426	914	1395	2066
90	35	99	173	425	914	1394	2066
80	34	97	155	410	913	1393	2058
70	33	95	145	401	910	1311	2030
60	33	94	140	388	882	1210	1950
50	31	90	105	349	776	1090	1753
40	28	76	95	335	665	872	1445
30	19	65	66	265	525	630	940
20	10	45	48	139	370	250	300
10	3	10	10	22	67	88	142

Lift	Cv in US Gallons/min., Δp = 1 psi						
in %	DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80
100	2.5	6.9	12.6	29.8	64.0	97.7	144.7
90	2.5	6.9	12.1	29.8	64.0	97.6	144.7
80	2.4	6.8	10.9	28.7	63.9	97.5	144.1
70	2.3	6.7	10.2	28.1	63.7	91.8	142.2
60	2.3	6.6	9.8	27.2	61.8	84.7	136.6
50	2.2	6.3	7.4	24.4	54.3	76.3	122.8
40	2.0	5.3	6.7	23.5	46.6	61.1	101.2
30	1.3	4.6	4.6	18.6	36.8	44.1	65.8
20	0.7	3.2	3.4	9.7	25.9	17.5	21.0
10	0.2	0.7	0.7	1.5	4.7	6.2	9.9

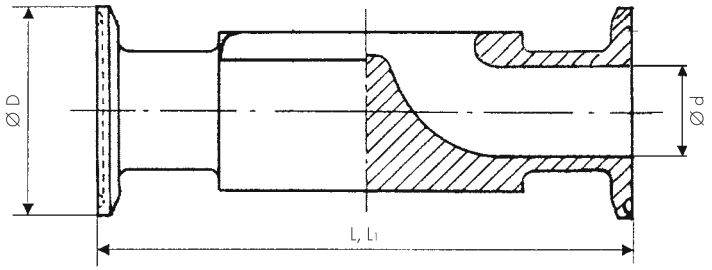
Dimensions

Buttweld ends



		ASMEBPE
DN	**L**	**øDxs**
15	110	12.7x1.65
20	119	19.05x1.65
25	129	25.4x1.65
40	161	38.1x1.65
50	192	50.8x1.65
65	218	63.5x1.65
80	256	76.2x1.65

Clamp ends



			ClampASME BPE fortubeASME BPE	
DN	**L**	**L1**	**ød**	**øD**
15	108	89	9.40	25.0
20	118	102	15.75	25.0
25	127	114	22.10	50.5
40	159	140	34.80	50.5
50	191	159	47.50	64.0
65	216	194	60.20	77.5
80	254	222	72.90	91.0

Multi-port valves in stainless steel

Description
Multi-port valves are manufactured in various dimensions, angles and positions. Both the available bonnets and pneumatic actuators can be mounted.

Product Features

- **Several dimensions, angles and positions possible**
- **With manually operated bonnet or pneumatic actuator**
- **Buttweld ends according to all standards for manual and orbital fusion**
- **Seamless integrated clamp connection, sterile and dairy thread to all standards**
- **Zero static design**
- **Self-draining when positioned accordingly**
- **Ideal for CIP and SIP processes**
- **Practically turbulence free flow**
- **Special designs for individual requirements**

Diaphragm valve: Zero dead leg valve body

Features:

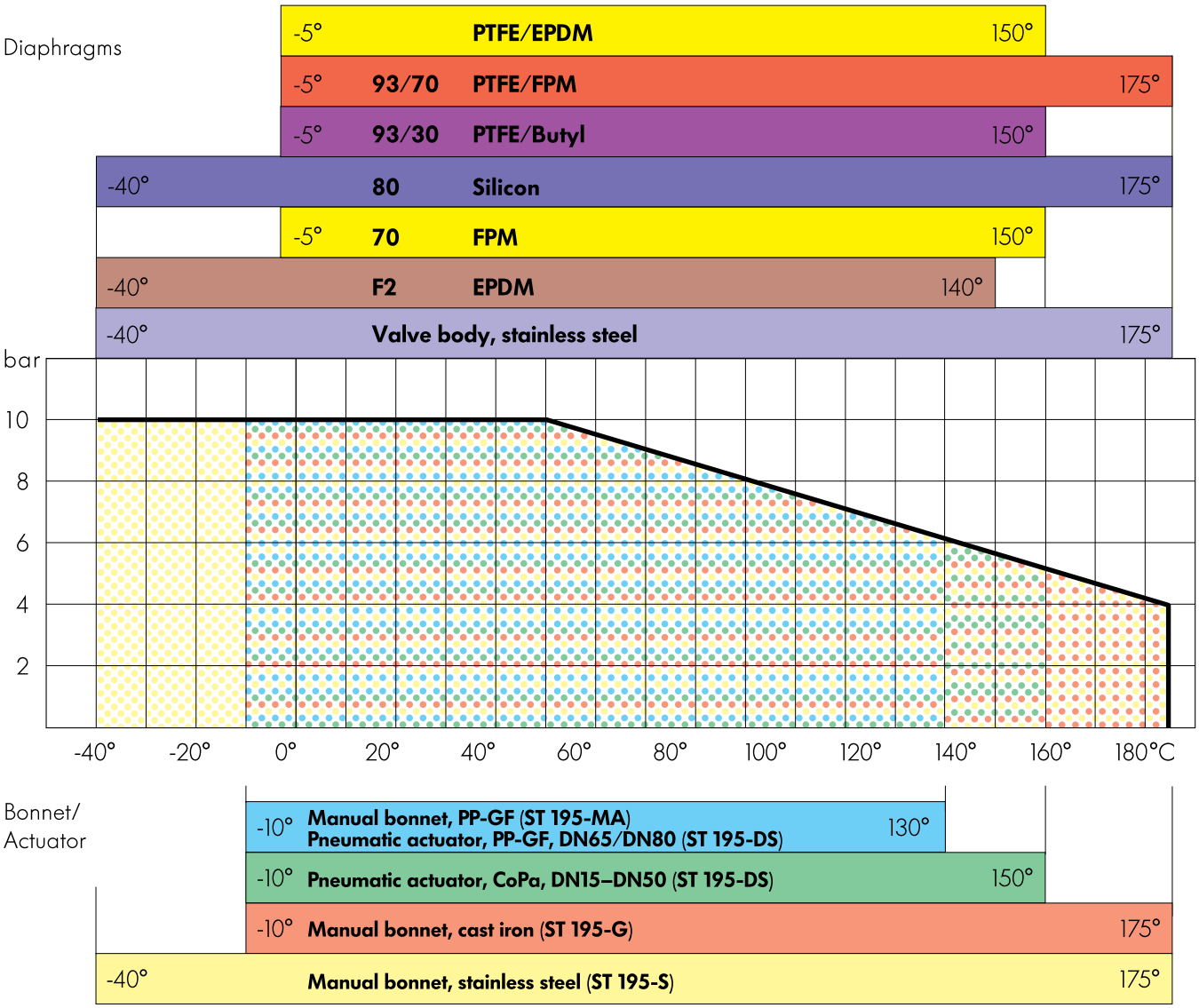
- Compact design with zero dead leg
- Cast and forged/ bar stock option available
- Forged/ bar stock body made from SS 316L block material – no welded components
- No internal fabrication weld for forged/ bar stock body
- Optimum security against microbial growth
- Option of Sampling/injection points in forged/ bar stock body for high purity systems
- Both mechanical polish and electro polish surface finish options available each with less than 0.40 µm Ra (16AARH)

Diaphragms

Diaphragm qualities

Code	Description	Material	Temperature °C		Shore-A hard kg/cm	Tensile str. kg/cm² min.
F2	EPDM	Ethylene-Propylene-Diene-Rubber as per FDA	-40	140	68–70	150
70	FPM	Viton	-5	150	74	130
80	Si	Silicon (U.S.P. Class 6)	-40	175	68–70	70
93/30	PTFE/IIR	PTFE/Butyl	-5	150		
93/70	PTFE/FPM	PTFE/Viton	-5	175		
	PTFE/EPDM	PTFE/EPDM	-5	150		
	PTFE/EPDM	PTFE/EPDM«LOW CREEP»	-5	150		
	PTFE/IIR	PTFE/BUTYL«LOW CREEP»	-5	150		

Pressure/Temperature Range (Medium)



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