

Высокочистые пластиковые мембранные клапаны 600НР/677НР/690НР Технические характеристики

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High Purity Diaphragm Valve, Plastic

Construction

The 600 HP 2/2 way valve has a low maintenance piston actuator which can be controlled by inert gases. It has a stroke limiter, a manual override and an integral optical position indicator as standard. Normally Closed, Normally Open and Double Acting control functions are available.

Features

- Suitable for inert and corrosive* liquid and gaseous high purity media
- All medium wetted parts and the housing are made of high quality plastic materials
 - Valve body: PFA-Inliner/PVDF-Outliner (carbon-filled)
 - Diaphragm material: PTFE/EPDM
 - Actuator: PP glass fibre reinforced
- Control connection in flow direction as standard, therefore installation in restricted spaces possible
- Manufactured under cleanroom conditions

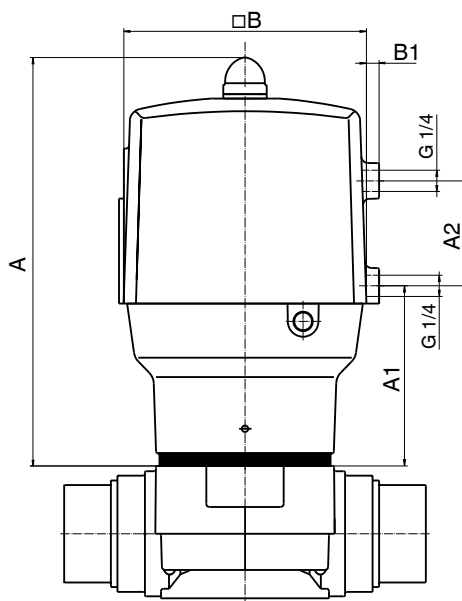
Advantages

- Good K_v value
- Minimal deadleg
- Optional flow direction, will seal in either flow direction up to full working pressure
- Due to its design particularly suitable for polishing agents and slurries
- Optional mounting position
- Optional accessories
 - Electrical position indicator with microswitches or proximity switches
 - Pneumatic or electro-pneumatic positioners
 - Control air adapter for pilot valves according to Namur

* see information on working medium on page 2



Actuator dimensions [mm / inch]



DN	A	A1	A2	□ B	B1
40	192 / 7.56	93 / 3.66	65 / 2.56	125 / 4.92	9 / 0.35
50	230 / 9.06	110 / 4.33	65 / 2.56	150 / 5.91	8 / 0.31

600HP

Technical data

Working medium

Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.

Control medium

Inert gases

Required control pressure see table below

Max. perm. temperature of control medium 40°C

Working temperature

Max. 90°C (194°F), higher temperatures upon request

depending on working pressure

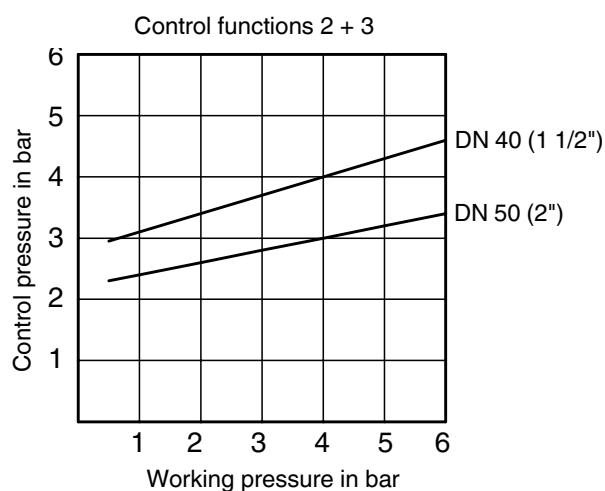
Ambient temperature

60°C (140°F)

Nominal size	Control function 1		Control functions 2+3		Kv value	Cv value	Weight
	Operating pressure	Control pressure	Working pressure	Control pressure	[m ³ /h]	[US gal/min]	[kg]
1 1/2" pipe DN 40	0 - 6 bar	5 - 6 bar	0 - 6 bar	max. 5 bar*	25.0	29.3	4.3
2" pipe DN 50					46.0	53.8	7.4

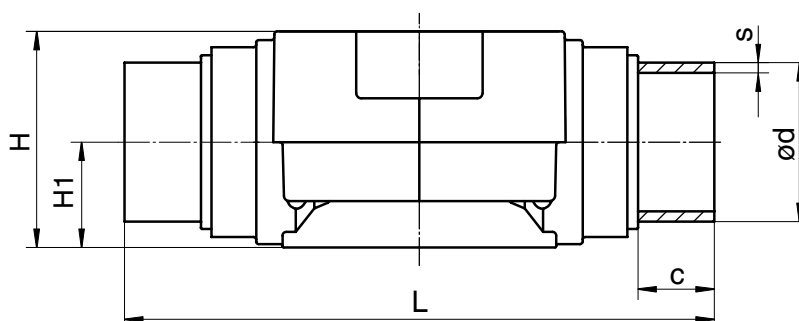
All pressures are given as gauge pressures.. *see diagram below

Control pressure characteristic DN 40 (1 1/2") and DN 50 (2")



Body dimensions [mm / inch]

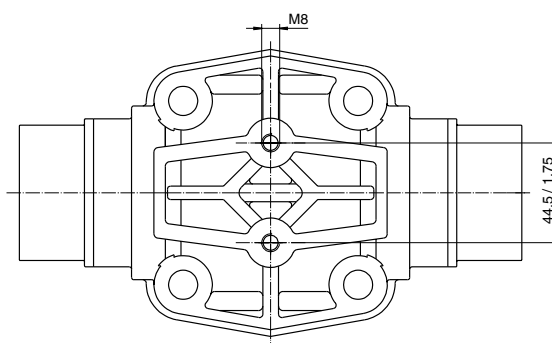
Imperial butt weld spigots , connection code 30



DN	NPS	H1	L	H	ød	c	Weight [kg]
40	1 1/2"	23.2	194	63.2	48.3	35	0.50
50	2"	23.2	224	63.2	60.3	40	0.57

Dimensions [mm / inch]

Mounting holes DN 40 (1 1/2") und DN 50 (2")



Order data

Nominal size	Code
1 1/2" pipe DN 40	40
2" pipe DN 50	50

Body configuration	Code
Straight through	D

Connection	Code
Imperial butt weld spigots (DIN length)	30

Valve body material	Code
PFA-Inliner/PVDF-Outliner (carbon filled)	23

Diaphragm material	Code
PTFE/EPDM	5E

Control function	Code
Normally closed	1
Normally open	2
Double acting (upon request)	3

Operator version	Code
Actuator size 3/N (DN 40)	3/N
Actuator size 4/N (DN 50)	4/N

High Purity design	Code
High Purity	HP

Order example	600	50	D	30	23	5E	1	4/N	HP
Type	600								
Nominal size (code)		50							
Body configuration (code)			D						
Connection (code)				30					
Valve body material (code)					23				
Diaphragm material (code)						5E			
Control function (code)							1		
Antriebsausführung (Code)								4/N	
High Purity design (code)									HP

Other HP valves



677 HPW



CleanStar® C60



CleanStar® C60/C67



CleanStar® C67

High Purity diaphragm valve, plastic

Construction

The 677 HP 2/2-way valve has a low maintenance manual operator. It is equipped with an ergonomically designed handwheel and an integral optical position indicator. The medium wetted parts are made of PFA or PVDF (body) and PTFE (shut off diaphragm).

Features

- Suitable for inert and corrosive* liquid and gaseous media, particularly high purity media
- All medium wetted parts and the housing are made of high-grade plastic.
- Operator: Glass fibre reinforced PP
- Nominal sizes DN 15 - DN 100 / NPS 1/2" - NPS 4"
- Standard optical position indicator
- Assembled, tested and packaged under class 100 cleanroom conditions

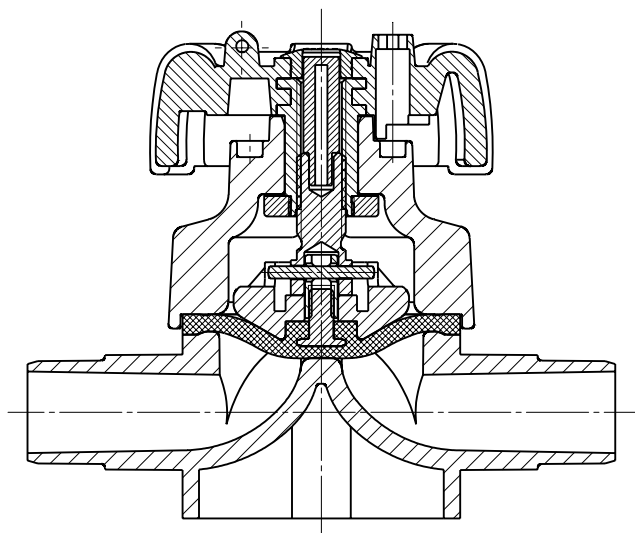
Advantages

- High K_V value
- Minimal deadleg
- Optional flow direction, will seal in either flow direction up to full operating pressure
- Due to its design (diaphragm valve, i. e. soft flow deviation) particularly suitable for polishing agents and slurries
- Optional installation position
- Optional accessories
 - Electrical position indicator
 - Locking device

* see information on working medium on page 2



Sectional view



677 HP

Technical data

Working medium

Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.

Working medium temperature

Valve body PVDF -20 to 120 °C

Valve body PFA -10 to 90 °C

The permissible operating pressure depends on the working medium temperature

Ambient temperature

Valve body PVDF, PFA -10 to 60 °C

Operating pressure

Valve body PVDF max. 10 bar applied upstream

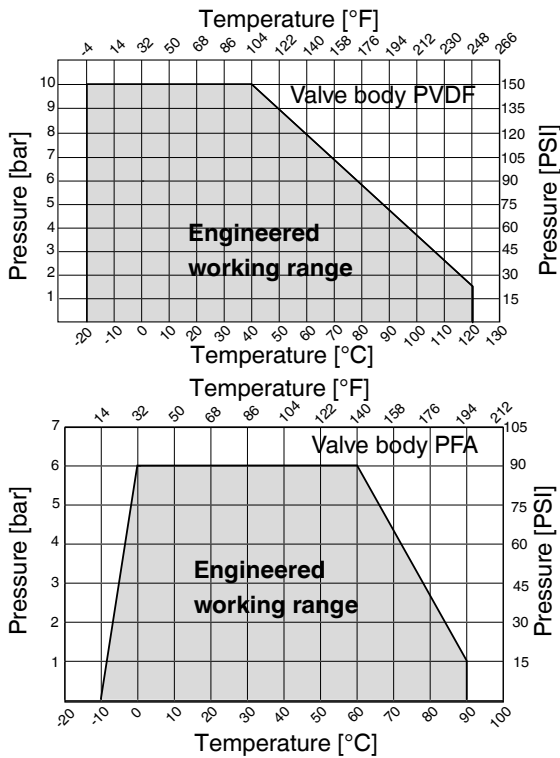
Valve body PFA max. 6 bar applied upstream

Kv values / Weight - 2/2-way valves

DN	Kv value [l/min]	Cv value [USgal/min]	Weight [kg]
15	93	6.51	0.7
20	137	9.59	0.7
25	175	12.25	0.7
32	300	21.00	1.4
40	417	29.19	1.4
50	767	53.69	2.4
65	1300	91.00	7.3
80	2000	140.00	7.3
100	3150	220.50	9.0

The above values are valid for both flow directions. All pressures are gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values. Information on operating pressures applied on both sides and for high purity media on request. Kv values determined acc.to IEC 534 standard. inlet pressure 6 bar. Δp 1 bar. PVC-U valve body and soft elastomer diaphragm.

Temperature / pressure diagram



Information on the use of diagram

The temperature / pressure diagram is only an orientation aid. The data refer to water as a working medium. A change of operating conditions or other media may result in deviations. In case of doubt it is advisable to test the behavior of the material under the definitive operating conditions by means of a test installation.

Kv values - T valves

DN2 Pipe	DN1 Spigot	Kv value [l/min]	Cv value [USgal/min]
15	15	80	5.60
20	15	82	5.74
20	20	114	7.98
25	15	83	5.81
25	20	117	8.19
25	25	148	10.36
32	15	85	5.95
32	25	153	10.71
32	32	385	26.95
40	15	87	6.09
40	20	122	8.54
40	25	150	10.50
40	40	500	35.00
50	15	93	6.51
50	20	133	9.31
50	25	157	10.99
50	32	397	27.79
50	40	505	35.35
50	50	540	37.80
65	32	340	23.80
65	50	550	38.50
80	15	87	6.09
80	20	132	9.24
80	25	145	10.15
80	32	327	22.89
80	40	441	30.87
80	50	552	38.64
100	32	327	22.89
100	40	441	30.87
100	50	552	38.64

Pressure / temperature correlation

Temperature [°C]	-30	-20	-10	0	5	10	20	25	30	40	50	60	70	80	90	100	110	120	
Valve body material	Permissible operating pressure [bar]																		
PVDF Code 20	-	10	10	10	10	10	10	10	10	10	8.9	7.9	6.8	5.9	4.5	3.1	2.1	1.5	
PFA Code 23	-	-	-	6	6	6	6	6	6	6	6	6	4.5	2.8	1	-	-	-	

Data for extended temperature ranges on request. Please note that the ambient temperature and medium temperature generate a combined temperature at the valve body which must not exceed the above values.

Order data

Body configuration	Code
2/2-way	D
T body (only valve body material PVDF)	T

Connection	Code
Spigots for IR butt welding	20
Spigots for IR butt welding, BCF	28
Imperial butt weld spigots	30

Valve body material	Code
PVDF	20
Inliner PFA / outliner PVDF, carbon-filled	23

Diaphragm material	Code
PTFE / EPDM	5E
PTFE / EPDM	52

Control function	Code
Manually operated	0
Manually operated with lockable handwheel	L

Operator version	Code
Thread for mounting of electrical position indicator 1215	Z

Additional order data for T valves	
DN 2 (main)	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65*
DN 80	80*
DN 100	100*

* only connection 2 code 20

Connection 2	Code
Spigots for IR butt welding	20
Spigots for IR butt welding, BCF	28

High Purity version	Code
High Purity	HP

Order example	677	50	D	30	23	5E	0	Z	-	-	HP
Type	677										
Nominal size		50									
Body configuration (code)			D								
Connection (code)				30							
Valve body material (code)					23						
Diaphragm material (code)						5E					
Control function (code)							0				
Operator version (code)								Z			
T body: DN 2 (main) (code)									-		
T body: Connection 2 (code)										-	
High Purity version (code)											HP

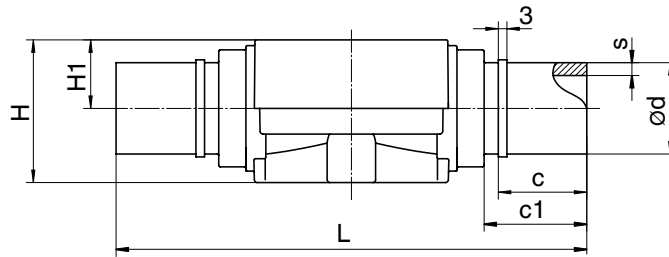
Overview of valve bodies for 677 HP

Body configuration	2/2-way			T body
Connection code	20	28*	30	28
Material code	20	20	23	20
Nominal size	65 - 100	15 - 50	40, 50	15 - 50
Diaphragm material (code)	52 / 5E**	5E	5E	5E
High Purity version (code)	HP	HP	HP	HP

* without thread for mounting of electrical position indicator **DN 15 - 50

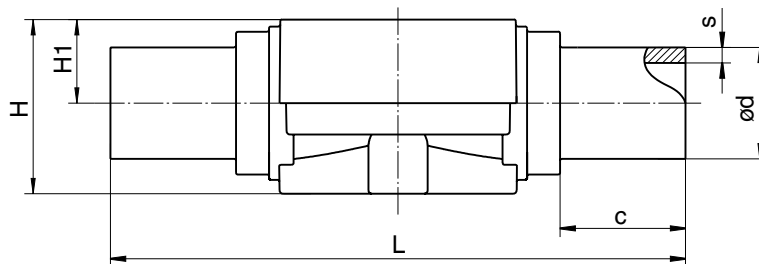
Body dimensions - 2/2-way valves [mm]

Spigots for IR butt welding, BCF, connection code 28
Valve body material: PVDF (code 20)



DN	L	H	H1	ød	c	c1	s	Weight [kg]
15	154	50	24	20	31	37	1.9	0.24
20	154	50	24	25	31	37	1.9	0.25
25	154	50	24	32	31	37	2.4	0.26
32	194	74	34	40	40	46	2.4	0.65
40	194	74	34	50	40	46	3.0	0.66
50	224	82	42	63	40	46	3.0	1.10

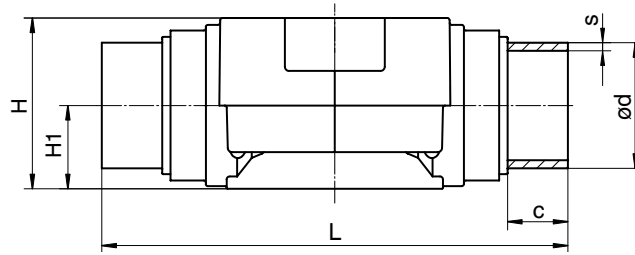
Spigots for IR butt welding, connection code 20
Valve body material: PVDF (code 20)



DN	L	H	H1	ød	s	c	Weight [kg]
65	284	117.0	62.0	75	3.6	43	3.57
80	300	117.0	62.0	90	4.3	51	3.30
100	340	140.0	75.0	110	5.3	59	4.00

Body dimensions - 2/2-way valves [mm]

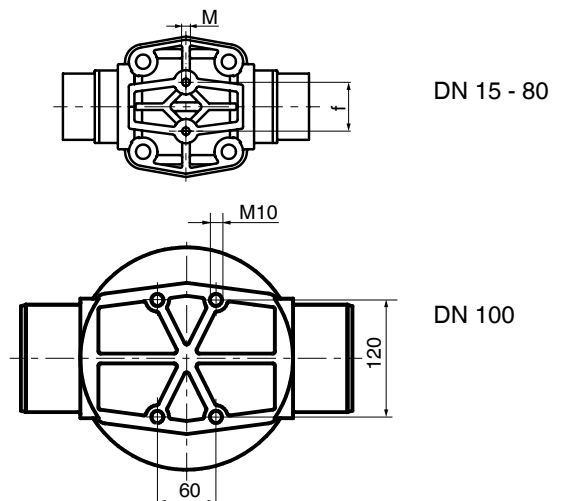
Imperial butt weld spigots , connection code 30
 Valve body material: Inliner PFA / outlier PVDF, carbon-filled (code 23)



DN	NPS	H1	L	H	ød	c	Weight [kg]
40	1 1/2"	23.2	194	63.2	48.3	35	0.50
50	2"	23.2	224	63.2	60.3	40	0.57

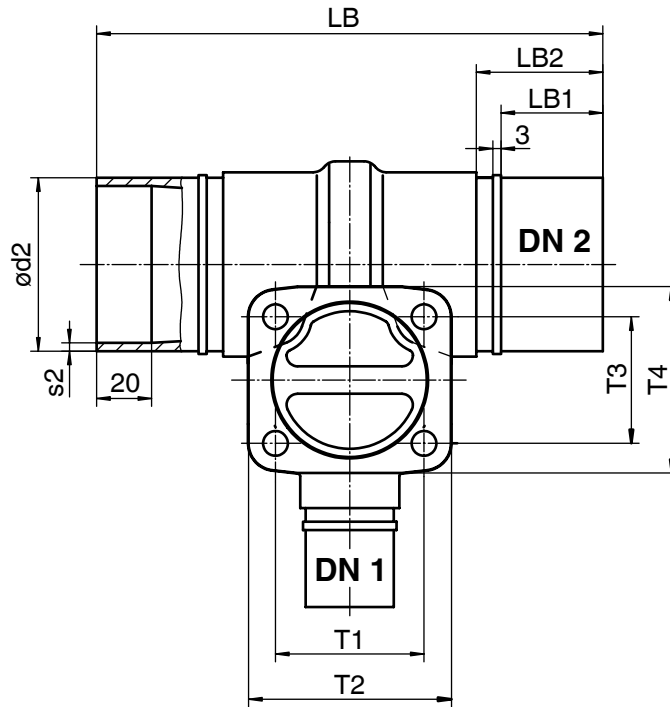
Valve body mounting dimensions [mm]

DN	M	f
15 - 25	M6	25.0
32	M6	25.0
40 - 50	M8	44.5
65	M8	44.5
80	M12	100.0
100	see drawing	



Body dimensions - T valves [mm]

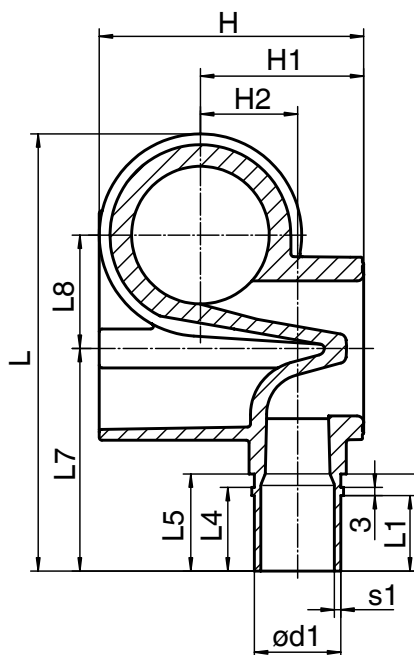
Spigots for IR butt welding, BCF, connection code 28
Valve body material: PVDF (code 20)



DN2	DN1	ø d2	s2	LB	LB1	Lb2	T1	T2	T3	T4
Pipe	Spigot									
15	15	20	1.9	166	28	36	54	74	46	68
20	15	25	1.9	166	28	36	54	74	46	68
25	15	32	2.4	166	28	36	54	74	46	68
32	15	40	2.4	184	37	46	54	74	46	68
40	15	50	3.0	184	37	46	54	74	46	68
50	15	63	3.0	184	37	46	54	74	46	68
80	15	90	4.3	196	-	51	54	74	46	68
20	20	25	1.9	166	28	36	54	74	46	68
25	20	32	2.4	166	28	36	54	74	46	68
40	20	50	3.0	184	37	46	54	74	46	68
50	20	63	3.0	184	37	46	54	74	46	68
80	20	90	4.3	196	-	51	54	74	46	68
25	25	32	2.4	166	28	36	54	74	46	68
32	25	40	2.4	194	37	46	54	74	46	68
40	25	50	3.0	194	37	46	54	74	46	68
50	25	63	3.0	194	37	46	54	74	46	68
65	25	75	3.6	196	-	46	54	74	46	68
80	25	90	4.3	196	-	51	54	74	46	68
32	32	40	2.4	194	37	46	54	74	46	68
50	32	63	3.0	235	37	46	82	128	78	110
80	32	90	4.3	254	-	51	82	128	78	110
40	40	50	3.0	194	37	46	82	74	78	68
50	40	63	3.0	235	37	46	82	128	78	110
80	40	90	4.3	254	-	51	82	128	78	110
50	50	63	3.0	235	37	46	82	128	78	110
65	50	75	3.6	254	-	46	82	128	78	110
80	50	90	4.3	254	-	51	82	128	78	110
100	32	110	5.3	274	-	62	82	128	78	110
100	40	110	5.3	274	-	62	82	128	78	110
100	50	110	5.3	274	-	62	82	128	78	110

Body dimensions - T valves [mm]

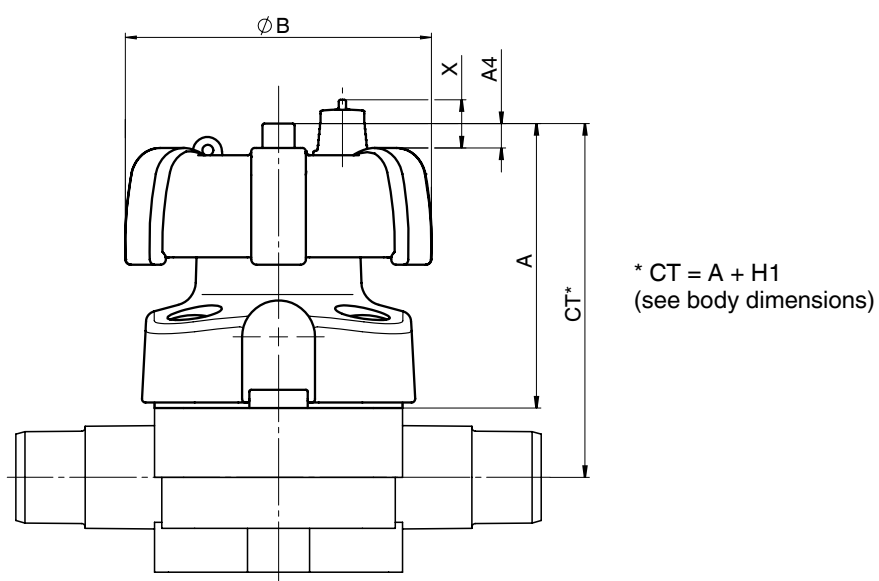
Spigots for IR butt welding. BCF, connection code 28
Valve body material: PVDF (code 20)



DN2 Pipe	DN1 Spigot	ø d1	s1	L	L1	L2	L4	L5	L7	L8	H	H1	H2
15	15	20	1.9	130	28	36	32	36	83	25	63	42	17
20	15	20	1.9	130	28	36	32	36	83	25	63	42	17
25	15	20	1.9	130	28	36	32	36	83	25	63	42	17
32	15	20	1.9	140	28	36	32	36	83	30	75	42	24
40	15	20	1.9	163	28	36	32	36	83	42	98	60	36
50	15	20	1.9	163	28	36	32	36	83	42	98	60	36
80	15	20	1.9	186	28	36	32	36	83	51	127	75	50
20	20	25	1.9	130	28	36	32	36	83	25	63	42	17
25	20	25	1.9	130	28	36	32	36	83	25	63	42	17
40	20	25	1.9	163	28	36	32	36	83	42	98	60	36
50	20	25	2.4	163	28	36	32	36	83	42	98	60	36
80	20	25	2.4	186	28	36	32	36	83	51	127	75	50
25	25	32	2.4	130	28	36	32	36	83	25	63	42	17
32	25	32	2.4	140	28	36	32	36	83	30	75	49	24
40	25	32	2.4	163	28	36	32	36	83	42	98	60	36
50	25	32	2.4	163	28	36	32	36	83	42	98	60	36
65	25	32	2.4	186	28	36	32	36	83	51	127	75	50
80	25	32	2.4	186	28	36	32	36	83	51	127	75	50
32	32	40	2.4	205	37	46	35	46	118	47	107	67	30
50	32	40	2.4	205	37	46	35	40	118	47	107	67	30
80	32	40	2.4	226	37	46	35	40	118	56	140	88	50
40	40	50	3.0	205	37	46	35	46	118	47	107	67	30
50	40	50	3.0	205	37	46	35	40	118	47	107	67	30
80	40	50	3.0	226	37	46	35	40	118	56	140	88	50
50	50	63	3.0	205	37	46	40	46	118	47	107	67	30
65	50	63	3.0	226	37	46	33	40	118	56	140	88	50
80	50	63	3.0	226	37	46	33	40	118	56	140	88	50
100	32	40	2.3	238	37	46	40	46	137	45	133	77	39
100	40	50	3.0	238	37	46	40	46	137	45	133	77	39
100	50	63	3.0	238	37	46	40	46	137	45	133	77	39

Dimensions [mm]

Operator dimensions



DN	Ø B	A	A4 approx.	X*	Weight [kg]
15 - 25	90	79	8	14	0.4
32 - 40	114	99	10	8	0.6
50	140	119	12	9	1.0
65 - 80	214	167	26	27	3.8
100	214	219	34	27	5.1

* only for control function code L

Instrumentation



1215 electrical
position indicator
ATEX

High Purity diaphragm valve, plastic

Construction

The 690HP diaphragm valve has a low maintenance membrane actuator which can be controlled by air or inert gases. Normally Closed (NC), Normally Open (NO) and Double Acting (DA) control functions are available. All medium wetted parts and the actuator housing are made of high-grade plastic materials which can be selected to suit the application.

Features

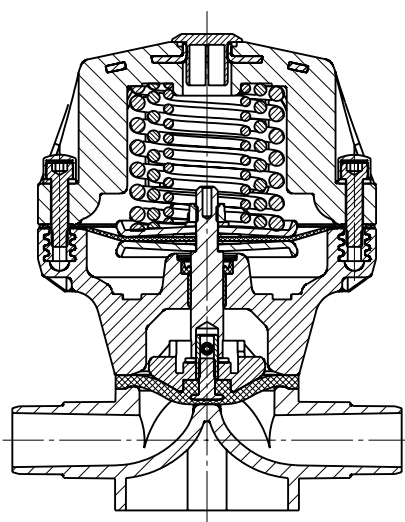
- Suitable for inert and corrosive* liquid and gaseous media, particularly high purity media
- All medium wetted parts and the housing are made of high-grade plastic
 - Valve body: PFA inliner/PVDF outliner (carbon-filled) or PVDF, depending on the connection
 - Diaphragm material: PTFE/EPDM
- Control connection positioned in-line with flow direction as standard, thus installable in restricted spaces
- Manufactured under cleanroom conditions

Advantages

- Compact, lightweight construction and high performance
- High K_v value
- Minimal deadleg
- Proven long life membrane actuator
- Leak detection hole
- Simple diaphragm replacement
- Optional accessories
 - Electrical position indicators with microswitches or proximity switches
 - Positioners and process controllers

* see information on working medium on page 2

Sectional view



690HP

Technical data

Working medium

Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body and diaphragm material.

Working medium temperature

Valve body PP / PP-H	5 to 80 °C
Valve body PVDF	-10 to 80 °C
Dependent on the operating pressure	

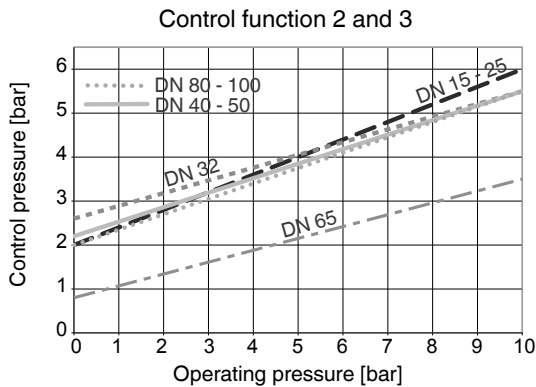
Ambient temperature

Valve body PP / PP-H	5 to 50 °C
Valve body PVDF	-5 to 50 °C

Control / operating pressure [bar]

DN	NPS	Operating pressure		Control pressure	
		Diaphragm		Control function	
		EPDM/FPM	PTFE	1	2 and 3
15-25	1/2" - 1"	0 - 10	0 - 6	4.5 - 7.0	max. 6.0
32-50	1 1/4" - 2"	0 - 10	0 - 6	4.5 - 7.0	max. 5.5
65	2 1/2"	0 - 10	0 - 6	5.5 - 7.0	max. 5.0
80	3"	0 - 8	0 - 6	5.0 - 7.0	max. 5.5
100	4"	0 - 6	0 - 4	5.5 - 7.0	max. 5.5

Control pressure characteristic



The above values are valid for both flow directions. All pressures are gauge pressures. Operating pressure values were determined with static operating pressure applied on one side of a closed valve. Sealing at the valve seat and atmospheric sealing is ensured for the given values. Information on operating pressures applied on both sides and for high purity media on request.

Control medium

Inert gases	
Max. permissible temperature of control medium	40 °C
Filling volume (control function 1)	
DN 15 - 25	0.17 dm ³
DN 32 - 40	0.38 dm ³
DN 50	1.10 dm ³
DN 65 - 100	2.50 dm ³

Kv values / Weight - 2/2-way valves

DN	Kv value [l/min]	Weight [kg]
15	93	0.7
20	137	0.7
25	175	0.7
32	300	1.4
40	417	1.4
50	767	2.4
65	1300	7.3
80	2000	7.3
100	3150	9.0

Kv values - T valves

DN2	DN1	Kv value	DN2	DN1	Kv value
Pipe	Spigot	[l/min]	Pipe	Spigot	[l/min]
15	15	80	50	40	505
20	15	82	50	50	540
20	20	114	65	32	340
25	15	83	65	50	550
25	20	117	80	15	87
25	25	148	80	20	132
32	15	85	80	25	145
32	25	153	80	32	327
32	32	385	80	40	441
40	15	87	80	50	552
40	20	122	100	15	87
40	25	150	100	20	132
40	40	500	100	25	145
50	15	93	100	32	327
50	20	133	100	40	441
50	25	157	100	50	552
50	32	397			

Kv values determined acc. to IEC 534 standard, inlet pressure 6 bar, Δp 1 bar, PVC-U valve body and soft elastomer diaphragm.

Pressure / temperature correlation for plastic

Temperature in °C (plastic body)	Permissible operating pressure in bar													
	-20	-10	±0	5	10	20	25	30	40	50	60	70	80	
Valve body material														
PP-H	Code 70 / 71	-	-	-	10.0	10.0	10.0	10.0	8.5	7.0	5.5	4.0	2.7	1.5
PVDF	Code 20	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.0	7.0	6.3	5.4	4.7

Data for extended temperature ranges on request. Please note that the ambient temperature and medium temperature generate a combined temperature at the valve body which must not exceed the above values.

Order data

Body configuration	Code
2/2-way	D
T body	T

Connection	Code
Spigots DIN for socket solvent cementing/welding	0
Spigots for IR butt welding	20
Spigots for IR butt welding, BCF	28

Valve body material	Code
PVDF	20
Inliner PP-H natural / outliner PP reinforced	70
Inliner PP-H grey / outliner PP reinforced	71

Diaphragm material	Code
PTFE/EPDM	52
PTFE/EPDM	5E

Control function	Code
Normally closed (NC)	1
Normally open (NO)	2
Double acting (DA)	3

Actuator size	Code
Actuator size 1/N (DN 15-25)	1/N
Actuator size 2/N (DN 32,40)	2/N
Actuator size 3/N (DN 50)	3/N
Actuator size 4/N (DN 65-80)	4/N
Actuator size 5/N (DN 100)	5/N

Additional order data for T valves

DN 2 (main)	Code
DN 15	15
DN 20	20
DN 25	25
DN 32	32
DN 40	40
DN 50	50
DN 65	65*
DN 80	80*
DN 100	100*

* only connection 2 code 20

Connection 2	Code
Spigots for IR butt welding	20
Spigots for IR butt welding, BCF	28

High Purity version	Code
High Purity	HP

Order example	690	20	D	20	20	52	1	2/N	-	-	HP
Type	690										
Nominal size		20									
Body configuration (code)			D								
Connection (code)				20							
Valve body material (code)					20						
Diaphragm material (code)						52					
Control function (code)							1				
Actuator size (code)								2/N			
T body: DN 2 (main) (code)									-		
T body: Connection 2 (code)										-	
Version (code)											HP

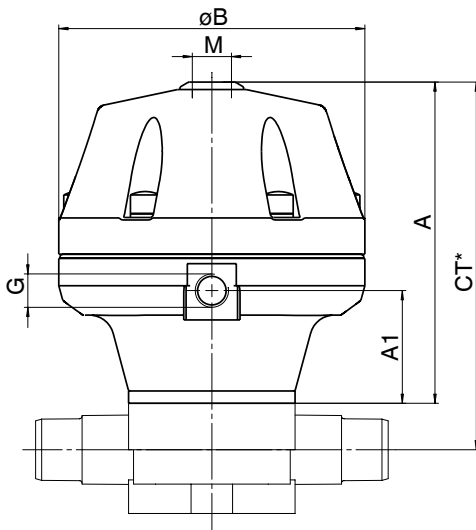
Overview of valve bodies for 690HP

Body configuration	2/2-way				T body
	0	20	28	28	
Connection code	0	20	28	28	
Material code	70, 71	20	70, 71	20	
Nominal size	15 - 50	65 - 100	15 - 50	15 - 50	
Diaphragm material (code)	52 / 5E	52 / 5E*	52 / 5E	5E	

* DN 15 - 50

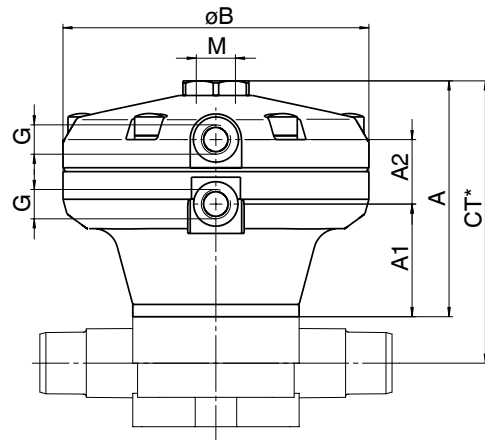
Actuator dimensions [mm]

Control function 1



Control function 2 and 3

* $CT = A + H1$ (see body dimensions)

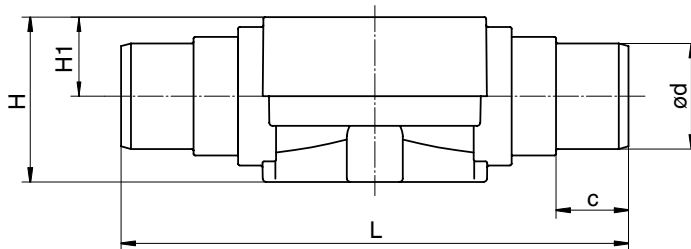


DN	ϕB	A	A1	G	M
15 - 25	125	131	47	G 1/4	M16x1
32 - 40	155	177	75	G 1/4	M16x1
50	210	215	90	G 1/4	M16x1
65 - 80	260	280	127	G 1/4	M22x1.5
100	260	307	149	G 1/4	M22x1.5

DN	ϕB	A	A1	A2	G	M
15 - 25	125	98	47	27	G 1/4	M16x1
32 - 40	155	135	75	27	G 1/4	M16x1
50	210	164	90	29	G 1/4	M16x1
65 - 80	260	226	127	41	G 1/4	M22x1.5
100	260	263	149	46	G 1/4	M22x1.5

Body dimensions - 2/2-way valves [mm]

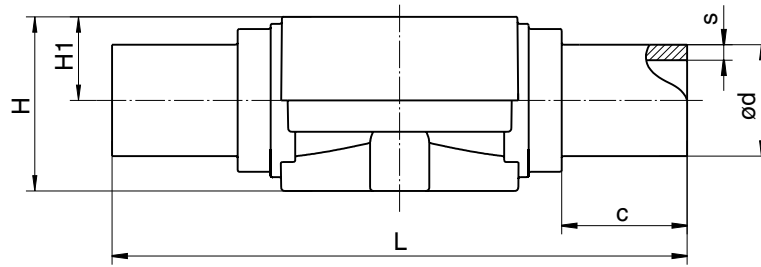
Spigots, connection code 0 Inliner PP-H (code 70 / 71)



DN	NPS	H1	L	H	ϕd	c	Weight [kg]
15	1/2"	10.0	124	36.0	20	18	0.12
20	3/4"	12.0	144	38.0	25	19	0.13
25	1"	13.0	154	39.0	32	22	0.16
32	1 1/4"	15.0	174	41.0	40	32	0.22
40	1 1/2"	23.2	194	63.2	50	26	0.50
50	2"	23.2	224	63.2	63	33	0.57

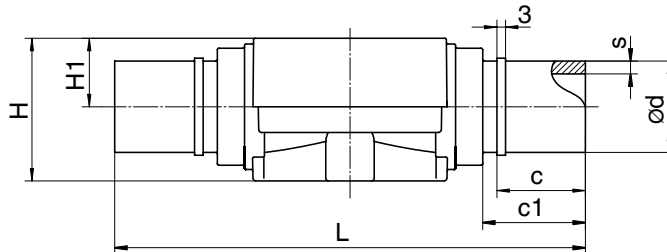
Body dimensions - 2/2-way valves [mm]

Spigots for IR butt welding, connection code 20
Valve body material: PVDF (code 20), inliner PP-H (code 70 / 71)



DN	L	H	H1	ød	s		c	Weight [kg]
					Material code			
					20	70 / 71		
15	154	36.0	10.0	20	1.9	1.9	33	0.10
20	154	38.0	12.0	25	1.9	2.3	33	0.12
25	154	39.0	13.0	32	2.4	2.9	33	0.14
32	174	41.0	15.0	40	2.4	3.7	33	0.18
40	194	63.2	23.2	50	3.0	4.6	33	0.40
50	224	63.2	23.2	63	3.0	5.8	33	0.47
65	284	117.0	62.0	75	3.6	-	43	3.57
80	300	117.0	62.0	90	4.3	-	51	3.30
100	340	140.0	75.0	110	5.3	-	59	4.00

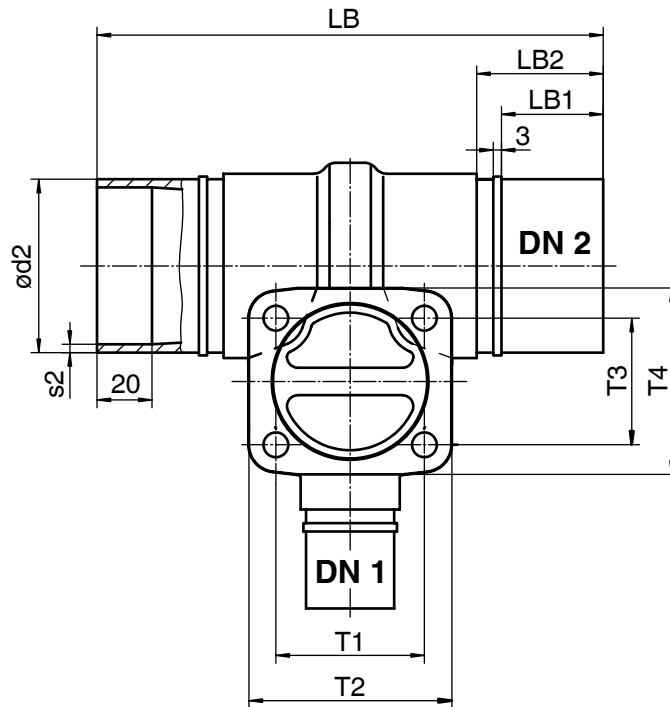
Spigots for IR butt welding, BCF, connection code 28
Valve body material: PVDF (code 20)



DN	L	H	H1	ød	c	c1	s	Weight [kg]
15	154	50	24	20	31	37	1.9	0.24
20	154	50	24	25	31	37	1.9	0.25
25	154	50	24	32	31	37	2.4	0.26
32	194	74	34	40	40	46	2.4	0.65
40	194	74	34	50	40	46	3.0	0.66
50	224	82	42	63	40	46	3.0	1.10

Body dimensions - T valves [mm]

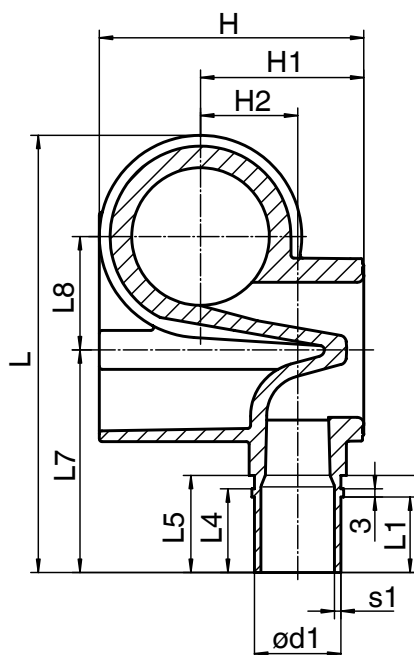
Spigots for IR butt welding, BCF, connection code 28
Valve body material: PVDF (code 20)



DN2 Pipe	DN1 Spigot	ø d2	s2	LB	LB1	Lb2	T1	T2	T3	T4
15	15	20	1.9	166	28	36	54	74	46	68
20	15	25	1.9	166	28	36	54	74	46	68
25	15	32	2.4	166	28	36	54	74	46	68
32	15	40	2.4	184	37	46	54	74	46	68
40	15	50	3.0	184	37	46	54	74	46	68
50	15	63	3.0	184	37	46	54	74	46	68
80	15	90	4.3	196	-	51	54	74	46	68
20	20	25	1.9	166	28	36	54	74	46	68
25	20	32	2.4	166	28	36	54	74	46	68
40	20	50	3.0	184	37	46	54	74	46	68
50	20	63	3.0	184	37	46	54	74	46	68
80	20	90	4.3	196	-	51	54	74	46	68
25	25	32	2.4	166	28	36	54	74	46	68
32	25	40	2.4	194	37	46	54	74	46	68
40	25	50	3.0	194	37	46	54	74	46	68
50	25	63	3.0	194	37	46	54	74	46	68
65	25	75	3.6	196	-	46	54	74	46	68
80	25	90	4.3	196	-	51	54	74	46	68
32	32	40	2.4	194	37	46	54	74	46	68
50	32	63	3.0	235	37	46	82	128	78	110
65	32	75	3.6	254	-	46	82	128	78	110
80	32	90	4.3	254	-	51	82	128	78	110
40	40	50	3.0	194	37	46	82	74	78	68
50	40	63	3.0	235	37	46	82	128	78	110
80	40	90	4.3	254	-	51	82	128	78	110
50	50	63	3.0	235	37	46	82	128	78	110
65	50	75	3.6	254	-	46	82	128	78	110
80	50	90	4.3	254	-	51	82	128	78	110
100	32	110	5.3	274	-	62	82	128	78	110
100	40	110	5.3	274	-	62	82	128	78	110
100	50	110	5.3	274	-	62	82	128	78	110

Body dimensions - T valves [mm]

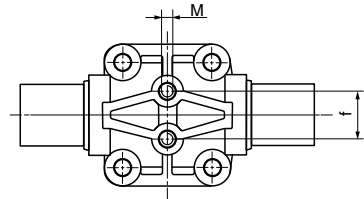
Spigots for IR butt welding, BCF, connection code 28
Valve body material: PVDF (code 20)



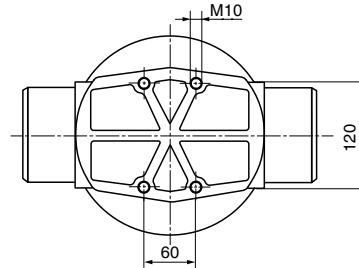
DN2 Pipe	DN1 Spigot	ød1	s1	L	L1	L2	L4	L5	L7	L8	H	H1	H2
15	15	20	1.9	130	28	36	32	36	83	25	63	42	17
20	15	20	1.9	130	28	36	32	36	83	25	63	42	17
25	15	20	1.9	130	28	36	32	36	83	25	63	42	17
32	15	20	1.9	140	28	36	32	36	83	30	75	42	24
40	15	20	1.9	163	28	36	32	36	83	42	98	60	36
50	15	20	1.9	163	28	36	32	36	83	42	98	60	36
80	15	20	1.9	186	28	36	32	36	83	51	127	75	50
20	20	25	1.9	130	28	36	32	36	83	25	63	42	17
25	20	25	1.9	130	28	36	32	36	83	25	63	42	17
40	20	25	1.9	163	28	36	32	36	83	42	98	60	36
50	20	25	2.4	163	28	36	32	36	83	42	98	60	36
80	20	25	2.4	186	28	36	32	36	83	51	127	75	50
25	25	32	2.4	130	28	36	32	36	83	25	63	42	17
32	25	32	2.4	140	28	36	32	36	83	30	75	49	24
40	25	32	2.4	163	28	36	32	36	83	42	98	60	36
50	25	32	2.4	163	28	36	32	36	83	42	98	60	36
65	25	32	2.4	186	28	36	32	36	83	51	127	75	50
80	25	32	2.4	186	28	36	32	36	83	51	127	75	50
32	32	40	2.4	205	37	46	35	46	118	47	107	67	30
50	32	40	2.4	205	37	46	35	40	118	47	107	67	30
65	32	40	2.4	226	37	46	35	40	118	56	140	88	50
80	32	40	2.4	226	37	46	35	40	118	56	140	88	50
40	40	50	3.0	205	37	46	35	46	118	47	107	67	30
50	40	50	3.0	205	37	46	35	40	118	47	107	67	30
80	40	50	3.0	226	37	46	35	40	118	56	140	88	50
50	50	63	3.0	205	37	46	40	46	118	47	107	67	30
65	50	63	3.0	226	37	46	33	40	118	56	140	88	50
80	50	63	3.0	226	37	46	33	40	118	56	140	88	50
100	32	40	2.3	238	37	46	40	46	137	45	133	77	39
100	40	50	3.0	238	37	46	40	46	137	45	133	77	39
100	50	63	3.0	238	37	46	40	46	137	45	133	77	39

Valve body mounting dimensions [mm]

DN	M	f
15 - 25	M6	25.0
32	M6	25.0
40 - 50	M8	44.5
65	M8	44.5
80	M12	100.0
100	see drawing	



DN 15 - 80



DN 100

Compensating/mounting plates



GEMÜ 10411041

Pilot valve



334
Pilot solenoid valve
Plastic

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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
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Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
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