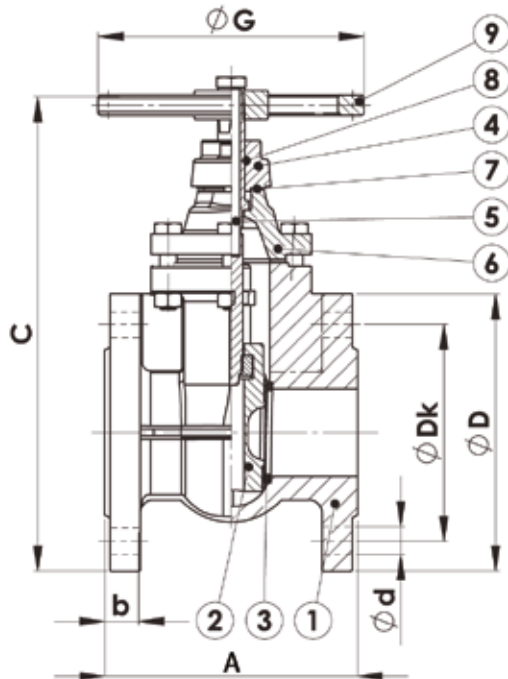


Cast Iron Gate Valve

BUK 9981



BUK 9981*:

Flanged PN16, Conforms to DIN3202 F4 Standard,
Cast Iron Body, Cast Brass Seat, Inside Screw, Non
Rising Stem

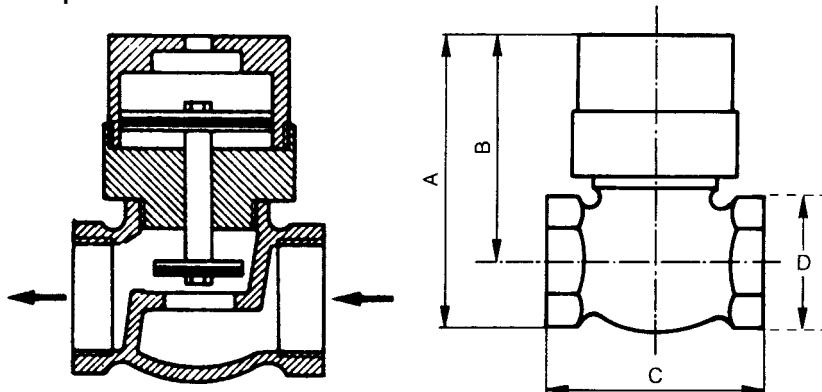
Dimensions (mm)									
Size	DN	A	ØD	ØDk	C	ØG	b	n-Ød	kg
* 1 1/2	40	140	150	110	320	140	18	4-18	10.4
* 2	50	150	165	125	354	140	20	4-18	11.0
* 2 1/2	65	170	185	145	396	160	20	4-18	12.8
* 3	80	180	200	160	440	160	20	8-18	16.7
* 4	100	190	220	180	470	185	22	8-18	23.5
* 5	125	200	250	210	559	200	22	8-18	34.0
* 6	150	210	285	240	610	240	22	8-23	43.0
* 8	200	230	340	295	725	240	24	12-23	63.0
* 10	250	250	405	355	888	360	26	12-27	87.0
* 12	300	270	460	410	972	360	28	12-27	132.0

No	Part Name	Material
1	Body	GG25
2	Wedge	GG25
3	Body Seat & Disc Seat Ring	Brass
4	Stem Nut	Brass
5	Stem	Stainless Steel A304
6	Bonnet	GG25
7	O-Ring	EPDM
8	Packing	Graphite
9	Handwheel	GG25

Pneumatically Operated Globe Valves



Flowpath

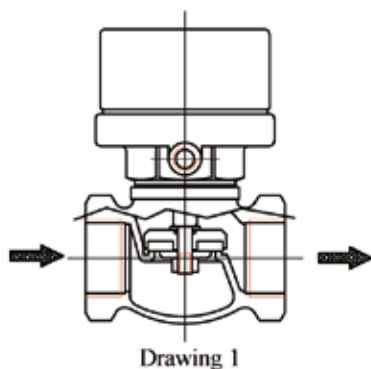


B (+size) DE (double acting),

B (+size) NC (single acting):

Globe valves type B are simple on-off seat valves with pneumatic actuation. They are available in sizes G1/2 to 2 and in single acting normally closed and double acting versions.

The seat configuration is such that the valve opens in the direction of flow and closes against it. At line pressures in excess of 3.5 bar, or in the case of actuator failure, the valve will tend to open. (For higher line pressures, please contact our sales offices).



'B' Globe Valves are not subject to "Water Hammer" because the fluid passed through the valve in the direction of the arrow printed on the body, as shown in drawing 1 (under the actuator). With these conditions the tightness is guaranteed up to the pressures shown in the Differential Pressure Chart.

Operating Pressure
Please refer to chart
Operating Temperature
-20°C to +100°C (NBR)
-15°C to +100°C (FPM)
-40°C to +100°C (EPDM)
Flow Rates
Flow rates stated in Kv: Flow coefficient in m³/h at differential pressure of 100kPa
Threads
ISO 228 F/F
Materials
Body: Bronze
Stem: Stainless Steel AISI 303
Seal: NBR, PTFE or Viton on request
Actuation Details
All types, 3 to 8 bar, air only (refer to chart)

DIFFERENTIAL PRESSURE CHART

DOUBLE ACTING VERSION

G	PRESS. PILOTA	DeltaP bar
1/2"	3	12
"	4	16
3/4"	3	8
"	4	10
1"	3	13
"	4	17
1"1/4	3	10
"	4	13
1"1/2	3	9
"	4	11,5
2"	3	6
"	4	9

SINGLE ACTING N.C. VERSION

G	DeltaP bar
1/2"	5,5
3/4"	7
1"	7
1"1/4	5,5
1"1/2	8
2"	5

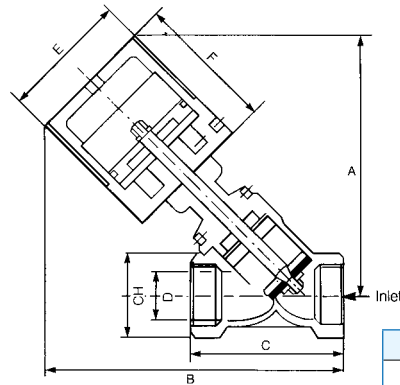
MINIMUM PRESSURE REQUIRED TO OPEN THE VALVE IN THE S.A.N.C. VERSION

G	1/2"	3/4"	1"	1"1/4	1"1/2	2"
BAR	3	5	3	3	4	4

Dimensions (mm)

Size	DN	D	Kv	A	B	C	Weight gr
1/2	15	17	3.4	105	85	60	600
3/4	20	22	7.9	113	85	75	700
1	25	28	11	125	95	85	1300
1 1/4	32	37	18	136	103	95	1700
1 1/2	40	43	28	170	130	110	2450
2	50	55	44	180	135	120	2900

Pneumatically Operated Bronze Angle Seat Valve for High Temperature



DV (+size) DE (double acting),
DV (+size) NC (single acting N/C),
DV (+size) NO (single acting N/O):

Pneumatically operated Angle Disc Valves series DV are recommended for steam, and frequent operation applications. The Valve is constructed from Bronze, Stainless Steel and Aluminium. Versions are available in normally open, normally closed and Double Acting. The Actuator consists of a piston, which when pressurised by the pilot air supply of 4 to 8 BAR, lifts to open the Valve Seat.

'DV' angle seat valves are not subject to "Water Hammer" because the fluid passes through the valve in the direction of the arrow printed on the body. With these conditions the tightness is guaranteed up to the pressures shown in the Differential Pressure Chart.

Operating Pressure
Please refer to chart
Operating Temperature
-20°C to +180°C
Flow Rates
Flow rates stated in Kv: Flow coefficient in m³/h at differential pressure of 100kPa
Threads
ISO 228 F/F
Materials
Body: Bronze
Stem: Stainless Steel AISI 303
Seal: PTFE
Actuation Details
4 to 8 bar, air only (refer to chart) Double Acting and Single Acting

DIFFERENTIAL PRESSURE CHART

SINGLE ACTING N.C. VERSION

G	DeltaP - bar
1/2"	15
3/4"	10
1"	8
1 1/4"	14
1 1/2"	12
2"	8

DOUBLE ACTING VERSION

G	PRESS. PILOTA	DeltaP - bar
1/2"	3	17
1/2"	4	23
3/4"	3	7
3/4"	4	11
1"	3	9,5
1"	4	12

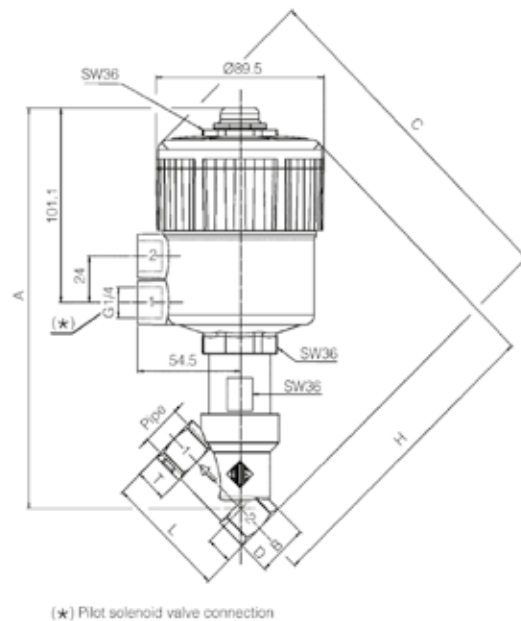
MINIMUM PRESSURE REQUIRED TO OPEN THE VALVE IN THE S.A.N.C. VERSION

G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
BAR	4	4	4	5	5	5

DN = Nominal diameter corresponding approx. to inside diameter of pipe
D = Orifice diameter of flow passage

Dimensions (mm)										
Size	DN	A	B	C	D	E	F	Kv	CH	Weight gr
1/2	15	122	143	59	16	64	65	4.5	27	840
3/4	20	130	150	70	22	64	65	11	33	950
1	25	138	162	74	27	64	65	13	38	970
1 1/4	32	200	204	95	32	100	130	30	49	2470
1 1/2	40	207	233	108	40	100	130	42	56	2870
2	50	220	250	129	50	100	130	66	69	3700

Pneumatically Operated Stainless Steel Angle Seat Valve for High Temperature



Pneumatically-operated Angle Seat valves are recommended for the on-off control of water, steam, air and oil.

The valve body is constructed from 316 Stainless Steel and has PTFE seals and packing and a polyamide 66 actuator housing with visual indication of piston position.

Proven design
No minimum operating pressure
Visual indication of valve state

Function
Normally Closed
Ambient Temperature
-10°C to +160°C
Fluid Temperature
-10°C to +180°C
Viscosity
Max. 37 Cst. 3°E
Materials
Valve Material: Stainless Steel AISI 316
Seal: PTFE
Seal Pack: PTFE, VITON
Actuator: Polyamide 66 with 30% glass fibre
Gaskets: NBR
Fluid: Dry or lubricated air, gas and neutral fluids

Dimensions (mm)

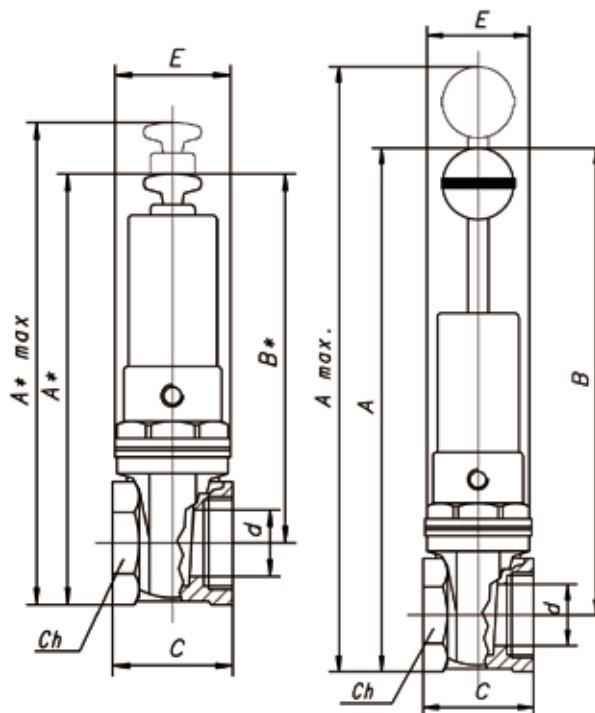
Part Number	Size	Max Pressure	DN	A	B	C	D	E	H	L	T	Kv	Weight Kg
21IA4T15GC2	1/2	16	15	206.8	SW 27	178.7	15.4	SW 30	163.3	66	17	4.9	1.4
21IA5T20GC2	3/4	10	20	211.7	SW 32	188.6	21.9	SW 36	166.7	75.5	19	9	1.5
21IA6T25GC2	1	10	25	220.1	SW 41	197.8	25.1	SW 36	172.7	90	21	11.5	1.8
21IA7T32GC2	1 1/4	7	32	235.9	SW 50	212.3	28.5	SW 41	183.8	110	24	20.5	2.4
21IA8T40GC2	1 1/2	4.5	40	238.9	SW 55	217.0	31.0	SW 41	186.0	122	25.2	25.9	2.7
21IA9T50GC2	2	3	50	247.8	SW 70	229.7	37.5	SW41	192.2	151	28.5	37	3.9

Pneumatically Operated Gate Valves



A (+size) DE (double acting),
A (+size) NC (single acting N/C),
A (+size) NO (single acting N/O):

Pneumatically-operated gate valves series A are relatively simple, low cost on-off valves for non-aggressive liquids at pressures no higher than 3 bar. Having metal-to-metal seals, absolute bubble-tight shut off cannot be guaranteed. However, within these constraints the valves are ideal for remote control of non-critical applications, for instance with water. The knob at the top of the actuator is of the push-pull variety, for manual override.



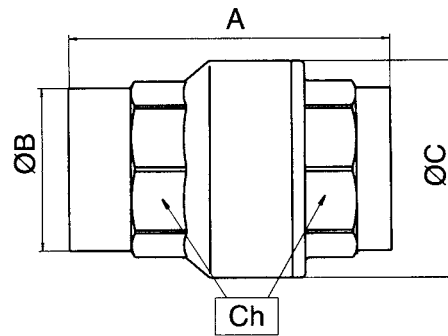
Operating Pressure
Please contact sales office
Operating Temperature
-20°C to +80°C
Threads
ISO 228 F/F
Materials
Valve Body/Disc : Brass OT58
Stem: Stainless Steel
Seal: Metal-to-metal
Body Gasket: Fibre
'O' Ring: NBR
Actuation Details
Max. 8 bar, air only
Double Acting and Single Acting

Dimensions (mm)

Size	DN	d	CH	A	A*	A max	A* max	B	B*	E	C	Kv	Weight gr
3/4	20	19	33	175	160	195	175	156	140	44	44	36	450
1	25	24	40	183	172	205	188	160	150	45	54	66	520
1 1/4	32	32	50	238	212	266	235	208	183	51	60	126	900
1 1/2	40	37	56	245	230	270	253	213	197	57	64	180	1130
2	50	46	69	295	275	337	318	255	236	70	72	234	1800
2 1/2	65	59	85	332	308	390	367	283	259	86	80	360	2550
3	80	70	102	397	363	462	428	340	305	100	85	603	3800
4	100	92	127	443	410	525	505	373	343	124	97	1200	6200

Non-Return Valves Brass – Screwed

100000



100000* Brass Valves:
Suitable for a wide range of fluids.

Dimensions (mm)

	Thread	DN	A	B	C	CH	Kv	PN	Weight Kg
*03	3/8	10	47	20	27	20	3.9	40	0.09
*04	1/2	15	59	25	34.5	25	5.2	40	0.14
*05	3/4	20	65	30.5	42	31	9.4	40	0.21
*06	1	25	75	37.5	49	38	14.5	25	0.32
*07	1 1/4	32	83	47.5	61	48	23.5	25	0.53
*08	1 1/2	40	89	53.5	73	54	33.5	16	0.75
*10	2	50	101.5	68	88	67	52	16	1.13
*12	2 1/2	65	121	82	111.5	83	84.3	12	2.00
*14	3	80	136	97.5	133	98	135.4	12	3.12
*18	4	100	158	127	163	128	193.2	10	5.67

Opening Pressure

20 - 25 millibar

Operating Pressure

Nominal working pressure (PN) in bar
- see chart

Operating Temperature

-10°C to +100°C

Materials

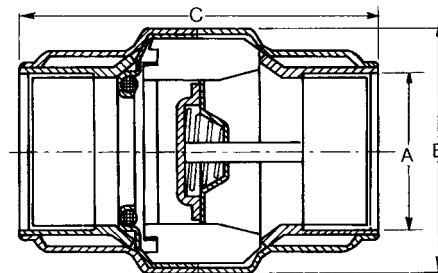
Body: Brass

Seals: NBR (Viton on request 100001)

Non-Return Valves Stainless Steel

– Screwed

CRO



CRO*: Stainless Steel Valves

Dimensions (mm)

Thread (A)	B	C	PN	Weight (gm)
*1/2	38	64	16	95
*3/4	45	72	16	142
*1	53	88	16	197
*1 1/4	62	99	16	320
*1 1/2	78	117	16	400
*2	85	115	16	676
*2 1/2	106	127	16	1075
*3	128	140	16	1630
*4	163	167	16	2770

Opening Pressure

0.03 BAR

Operating Pressure

Nominal working pressure (PN) in bar
- see chart. Not suitable for Vacuum

Operating Temperature

-20°C to +150°C
(on request PTFE Seal -20°C to +200°C)

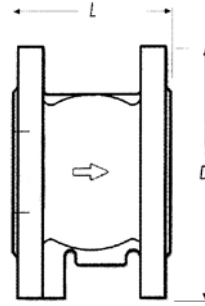
Materials

Metal Parts: Stainless steel AISI 304,
(316 stainless steel on request)

Seal: Viton

Non-Return Valves – Flanged

BAR 135



BAR 135*:

Flanged cast iron check valve PN16

Dimensions (mm)

Size	DN	PN	D	L	DN	gr
*2	50	16	165	100	50	5700
*2 1/2	65	16	185	120	65	8200
*3	80	16	200	140	80	10500
*4	100	16	220	170	100	14300
*5	125	16	250	200	125	23500
*6	150	16	285	230	150	31000

Opening Pressure

0.05 bar

Operating Pressure

PN16

Operating Temperature

Maximum working temperature +100°C

Materials

GG25

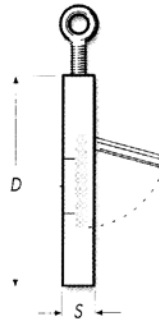
UNI EN12165 CW617N

UNI EN1982 CB7535

NBR

Non-Return Valves – Flanged

BAR 125



BAR 125*:

To suit PN16 Flanges

Dimensions (mm)

Size	DN	PN	D	L	DN	gr
*2	50	16	109	15	50	1040
*2 1/2	65	16	129	15	65	1420
*3	80	16	144	17	80	1800
*4	100	16	164	17	100	2200
*5	125	16	195	18	125	3200
*6	150	16	221	21	150	4500
*8	200	16	276	29	200	9800
*10	250	16	330	34	250	15800

Opening Pressure

0.01 bar

Operating Pressure

PN16

Operating Temperature

Maximum working temperature +110°C

Materials

ZINC - coated steel
(stainless steel available on request)

NBR