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BELGICAST is a company of



TALIS is the undisputed Number One for water transport and water flow control. TALIS has the best solutions available in the fields of water and energy management as well as for industrial and communal applications. We have numerous products for comprehensive solutions for the whole water cycle – from hydrants, butterfly valves and knife gate valves through to needle valves. Our experience, innovative technology, global expertise and individual consultation processes form the basis for developing long-term solutions for the efficient treatment of the vitally important resource "water".



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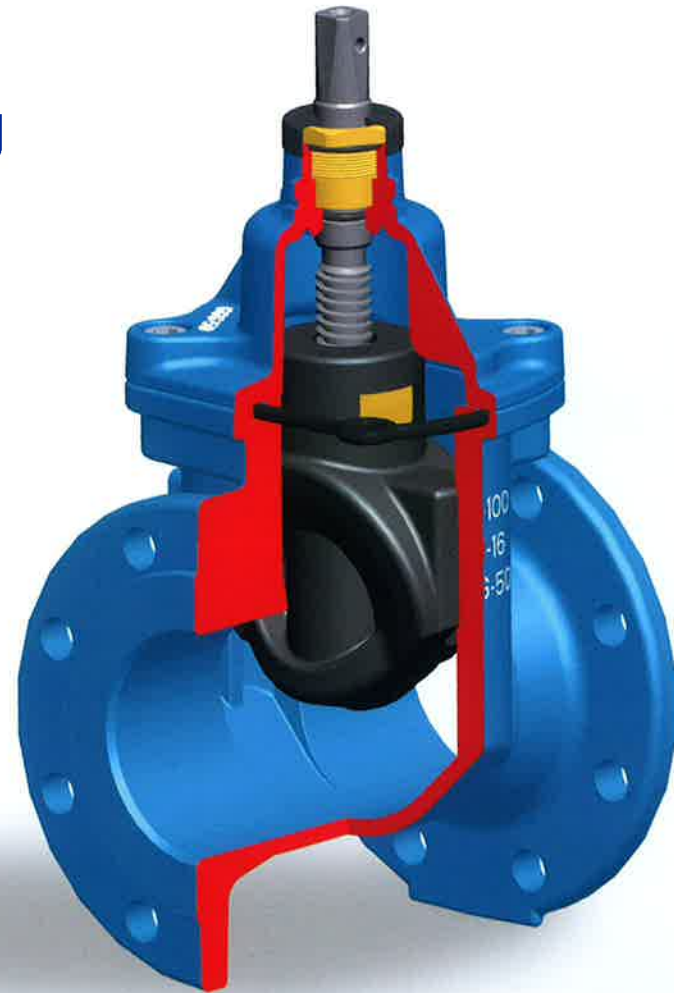


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Soft Sealing Gate Valves

BV-05-47 Soft Sealing Gate Valves



Body and bonnet in spherical graphite cast iron EN-GJS-500-7 (GGG-50), with blue Ral 5015 epoxy powder coating electrostatically applied, up to 305 micron epoxy coating upon request.

Wedge in spherical graphite cast iron EN-GJS-500-7 (GGG-50), fully coated as standard by EPDM, or NBR upon request. Wedge lock nut in copper alloy with great resistance to corrosion. Other materials available: CZ132 high resistance to dezincification, or aluminum bronze.

Stem in stainless steel AISI-420 (X20Cr13) as standard. Other materials upon request such as AISI-316 (X5CrNiMo1713), AISI-316L (X2CrNiMo1712), etc... The watertightness through the spindle is obtained with three o rings. These are independent pieces, and they can be replaced with the valve under pressure and in fully open position. Spindle dustguard to avoid impurities.

Body-bonnet gasket in EPDM as standard or NBR upon request. Body-bonnet bolting in carbon steel quality 8.8, dimensions according to DIN 912 with GEOMET anticorrosive coating and with seal protection. Upon request it can also be manufactured in stainless steel A2 (AISI-304 / X5CrNi18 10) and A4 (AISI-316 / X5CrNiMo1713 3).

Standard operation is clockwise closing (CWC), upon request valves can be supplied clockwise opening (CWO). Gate valves are supplied with handwheel in stamped steel, or square cap in EN-GJS-500-7 (GGG-50) for 30x30 T-key. They can also be operated with gear-box, electric, pneumatic actuator, extensions,...



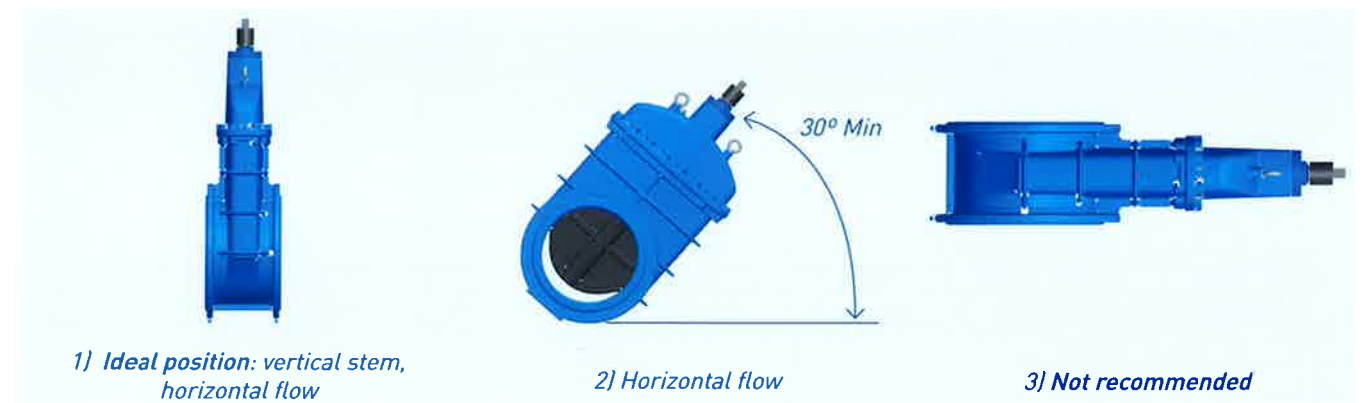
BV-05-47 Soft Sealing Gate Valve Installation and operation instructions

Recommended positions

From DN40 up to DN300:



From DN350 up to DN1200:



Operation

Each valve is operated by means of a hand-wheel or a square cap. In the latter case a purpose-designed operating key must be used. Valves are opened anti-clockwise unless otherwise requested.

Use

Do not use the valves for regulating mode.

Do not use the valves with EPDM rubber with gaseous fluids such as propane, butane, natural gas and not with fluids type gasolina, gas-oil...

BV-05-47

Soft Sealing Gate Valve

Installation and operation instructions



Storage

Leave the rubber wedge slightly open: if it is closed completely, the rubber suffers an unnecessary compression.

Take also into account that long storage under adverse conditions can drive to damage in the coating, elastomer and seals.

Assembly in pipe

The assembly of the valve in the pipe is independent of the flow direction.

When connecting the valve to the pipe, avoid the transmission of the stresses from the pipe to the valve body. For that, any pipe or pipe sections or valve not yet finally clamped in place must be provisionally supported to prevent abnormal stress on one or both sides of the valve.

Tighten screws gradually in a star-shaped pattern.

Once the valve is assembled, the threads of the bolts/rods should be greased with a brush or spray. MOLYCOTE or a similar graphite based waterproof grease should be used to prevent corrosion and facilitate subsequent dismantling operations.



BELGICAST BV-05-47 gate valves can be installed in applications such as potable water transmission, sewage treatment plants, HVAC installations,.....



Manufacturing Program

		
6 Soft Sealing Gate Valve F4-F5. DN40-350	7 Soft Sealing Gate Valve F4-F5. DN350-1200	8 Soft Sealing Gate Valve BS. DN50-600
		
9 Soft Sealing Gate Valve. PN-25. DN40-300	10 Flanged ends ANSI-150. DN50-600	11 Outside Screw and Yoke. DN40-350
		
12 Soft Sealing Gate Valve FM/Fire Protection Products	13 Welding polyethylene ends. DN50-300	14 Coupling for PVC pipe. DN50-400
		
14 Tyton coupling for ductile pipe. DN80-200	15 Spigot ends. DN50-400	15 Grooved ends. DN80-200
		
16 Threaded ends. DN20-50 (3/4"-2")	17 Vertical Tapping Valve. DN20-50 (3/4"-2")	17 Socket ends valve for polyethylene pipe. DN20-50 (3/4"-2")
		
18 Belgi-T. DN80-200	19 Belgi-3 and Belgi-4. DN50-300	20 Underground Installation. DN40-300
		
21 Prepared for actuator. DN40-1200	22 Installation and use instructions	

Valve Testing

(EN 12266-1 - EN 1074 standards)



Testing pressures

Shell tightness: 1,5 times the allowable pressure at room temperature.

Seat tightness: 1,1 times the allowable pressure at room temperature.

Minimum test duration (in seconds)

Nominal Diameter DN	Shell	Seat
Up to DN50 included	15	15
From DN65 up to DN200 (both included)	60	15
From DN250 up to DN450 (both included)	180	30
DN500 and above	180	60

Maximum allowable seat leakage

The criteria for seat leakage of Belgicast soft sealing gate valves is Rate A: no visually detectable leakage for the duration of the test ("zero drops").

Pressures and temperatures

- Up to 25 kg/cm² (PN 6/10/16 and 25).
- From -10 °C up to 50°C.

Quality Control

- 100% of BELGICAST soft sealing gate Valves are tested according to EN 12266-1, DIN 3230, or as per customer requirements.
- According to EN 1074 (2.500 cycles endurance resistance).

Features

- Full bore.
- Complete watertightness.
- Free maintenance.
- Low operating torque values.
- According to ISO, UNE, DIN, NF, BS and AWWA standards.

Scope

- Potable water, sewage, seawater,...
- HVAC or compressed air.
- Industrial processes.
- Irrigation.
- Fire protection.
- Vacuum.

Specific manufacturing requirements

Upon request gate valves can be manufactured as follows:

- Thicker epoxy coating, painting process according to GSK, enamel coating.
- Anticlockwise closing (CWO).
- Specific rubbers suitable for special applications.
- Other painting colors (RAL).



BV-05-47

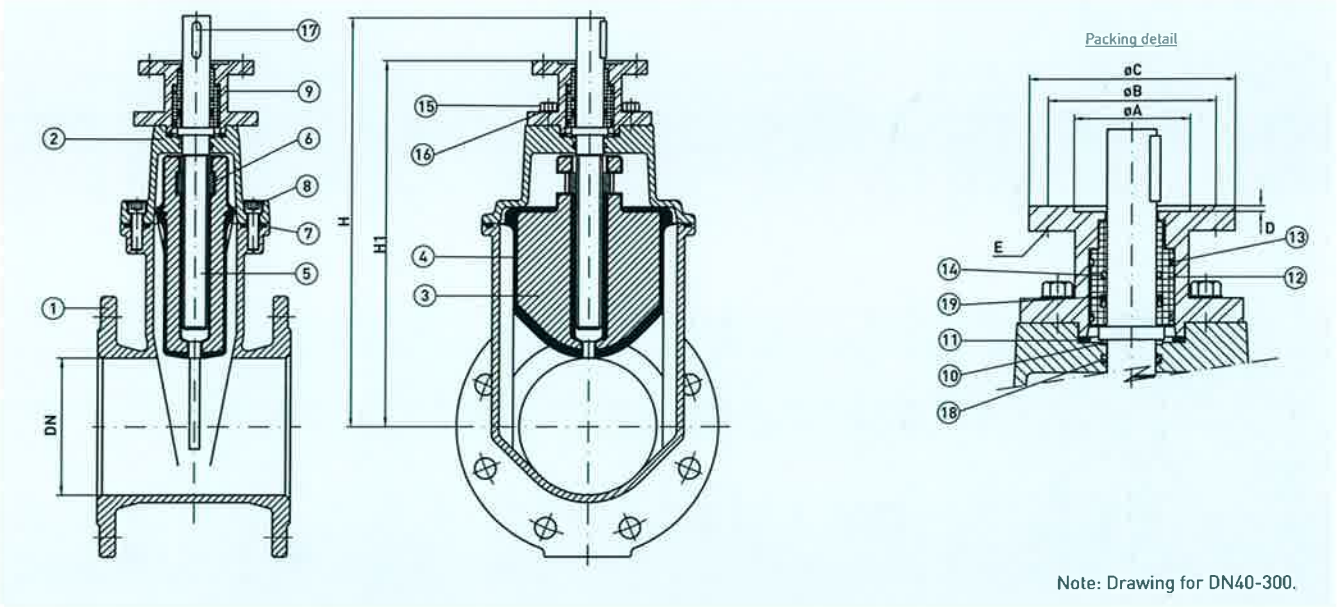
Soft Sealing Gate Valve

Prepared for actuator



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Body bonnet bolt	acc/DN	8.8 steel (GEOMET coated)	DIN 912
9	Coupling	1	F-1141	UNE 36011
10	Washer	1	P.O.M.	
11	Bonnet-top bonnet o ring	1	NBR	ASTM D2000
12	stuffing box gland	1	P.O.M.	
13	O ring ext.	2	NBR	ASTM D2000
14	O ring int.	1	NBR	ASTM D2000
15	Bonnet coupling bolt	acc/DN	X5 CrNi 18 10	EN 10088
16	Washer	acc/DN	X5 CrNi 18 10	EN 10088
17	Cotter	1	Steel F-1140	UNE 6885
18	Bonnet o ring	1	NBR	ASTM D2000
19	Packing	1	NBR	ASTM D2000

PN-10/16 / DN-40/1200



Note: Drawing for DN40-300.

DN	H	H1	Top flange ISO 5211	øA	øB	øC	D	E	Torque (Nm)	Nr.turns for closing
40	237	193	F-10	70.5	102	125	3.5	4xø12	20	12,5
50	247	202.5	F-10	70.5	102	125	3.5	4xø12	20	13
65	277	230	F-10	70.5	102	125	3.5	4xø12	30	16
80	326.5	279.5	F-10	70.5	102	125	3.5	4xø12	40	20
100	359.5	312.5	F-10	70.5	102	125	3.5	4xø12	40	25
125	408	361.5	F-10	70.5	102	125	3.5	4xø12	60	30
150	447	400.5	F-10	70.5	102	125	3.5	4xø12	70	33
200	550	484.5	F-10	70.5	102	125	3.5	4xø12	90	45
250	641.5	571	F-14	100.5	140	175	4.5	4xø18	170	50
300	716.5	646	F-14	100.5	140	175	4.5	4xø18	180	50
350	796.5	727	F-14	100.5	140	175	4.5	4xø18	310	57
400	955	898	F-14	100.5	140	175	4.5	4xø18	350	57
450	955	898	F-14	100.5	140	175	4.5	4xø18	350	63
500	1151	1075	F-16	130.5	165	210	5.5	4xø22	450	60
600	1313	1238	F-16	130.5	165	210	5.5	4xø22	500	60

Note: bigger sizes upon request.

BV-05-47

Soft Sealing Gate Valve

Underground Installation



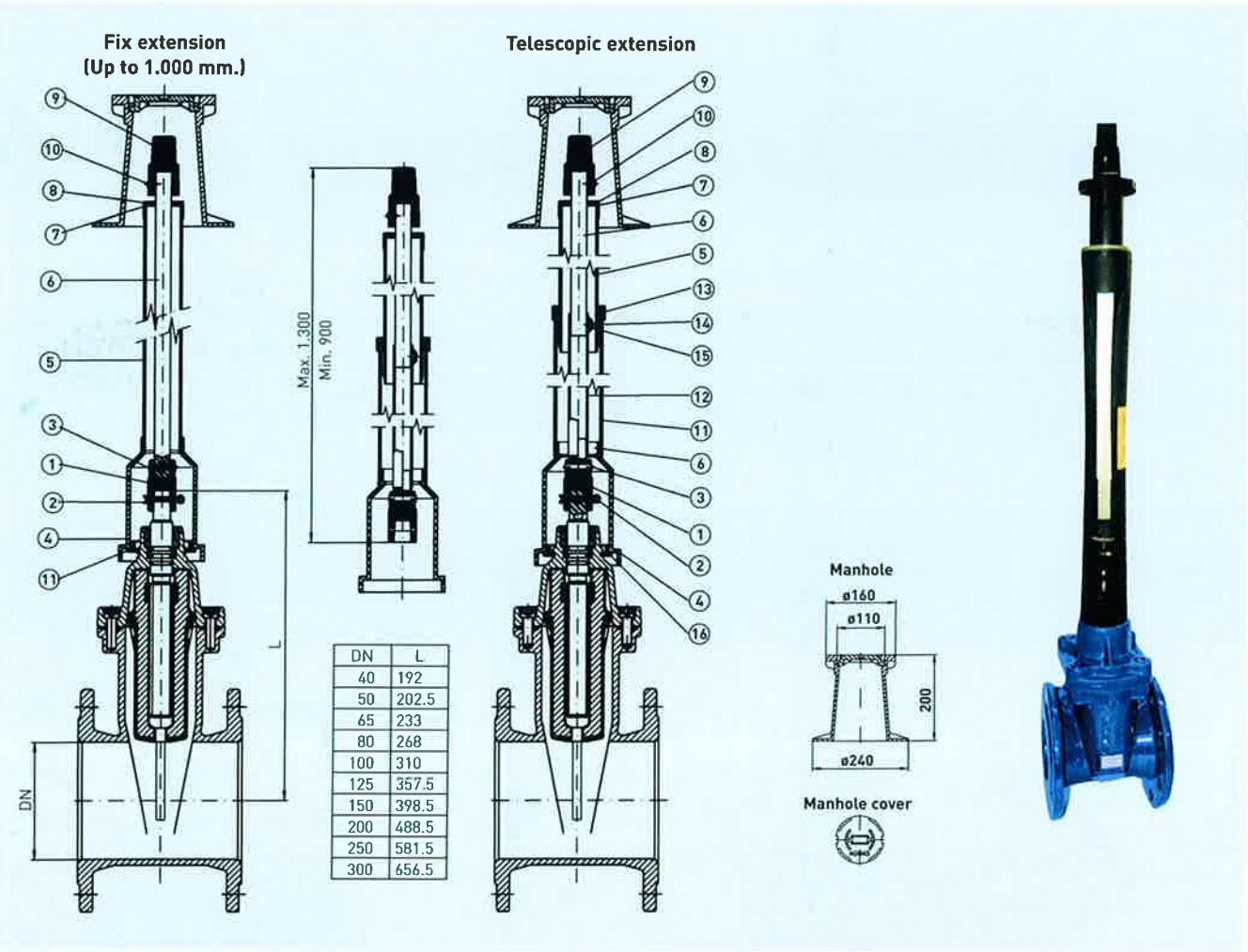
Fix extension

Item	Name	No. Pieces	Material
1	Intermediate coupling	1	EN-GJS-500-7 (GGG-50)
2	Wing pin	1	St3 / Zn6
3	Elastic pin	1	Steel
4	Protection bell	1	Poliethylene
5	PVC tube	1	PVC
6	Solid bar	1	St3 / Zn6
7	Plug	1	PVC
8	Plug gasket	1	NBR
9	Square cap	1	EN-GJS-500-7 (GGG-50)
10	Threaded rod	1	Stainless steel 18/8
11	Fixing bearing	1	

Telescopic extension

Item	Name	No. Pieces	Material
1	Intermediate coupling	1	EN-GJS-500-7 (GGG-50)
2	Wing pin	1	St3 / Zn6
3	Elastic pin	1	Steel
4	Protection bell	1	Polyethylene
5	PVC tube	1	PVC
6	Solid bart	1	St3 / Zn6
7	Plug	1	PVC
8	Plug gasket	1	NBR
9	Square cap	1	EN-GJS-500-7 (GGG-50)
10	Threaded rod	1	Stainless steel 18/8
11	PVC pipe	1	PVC
12	Hollow rod	1	St3 / Zn6
13	Tubes sealing	1	NBR
14	Pin	1	Steel
15	Welded nut	1	Steel
16	Fixing bearing	1	

PN-10/16 / DN-40/300



Valve Testing

(EN 12266-1 - EN 1074 standards)

Operating Torque

The operating torque of Belgicast soft sealing gate valves complies with the Maximum Operating Torque (MOT) requirement of the standard EN 1074.

The chart shows the typical operating torque values of BELGICAST soft sealing gate valves with clean water and at room temperature.

These values are only for orientation and can vary depending on the typical manufacturing variables. For other fluids and temperature please feel free to contact us.

Please apply 1,3 as safety factor for actuator selection.

DN	Torque (Nm)
40	20
50	20
65	30
80	40
100	40
125	60
150	70
200	90
250	170
300	180
350	310
400	350
*450	350
500	450
600	500
*700	500
800	2400
*900	2400
1000	3600
*1200	3600

*Reduced bore to DN 400, 600, 800, 1000 mm.

Approvals

Our products are approved by the most prestigious organisations all over the world, such as ISO, NF, KIWA, DVGW, WRAS, ÖVGW, GOST, FM, VDS and they have acknowledged our products and their suitability for drinking water.

A cutting-edge traceability system applied from the reception of raw material to product supply, together with an exhaustive control of processes, guarantees the top quality of our products.

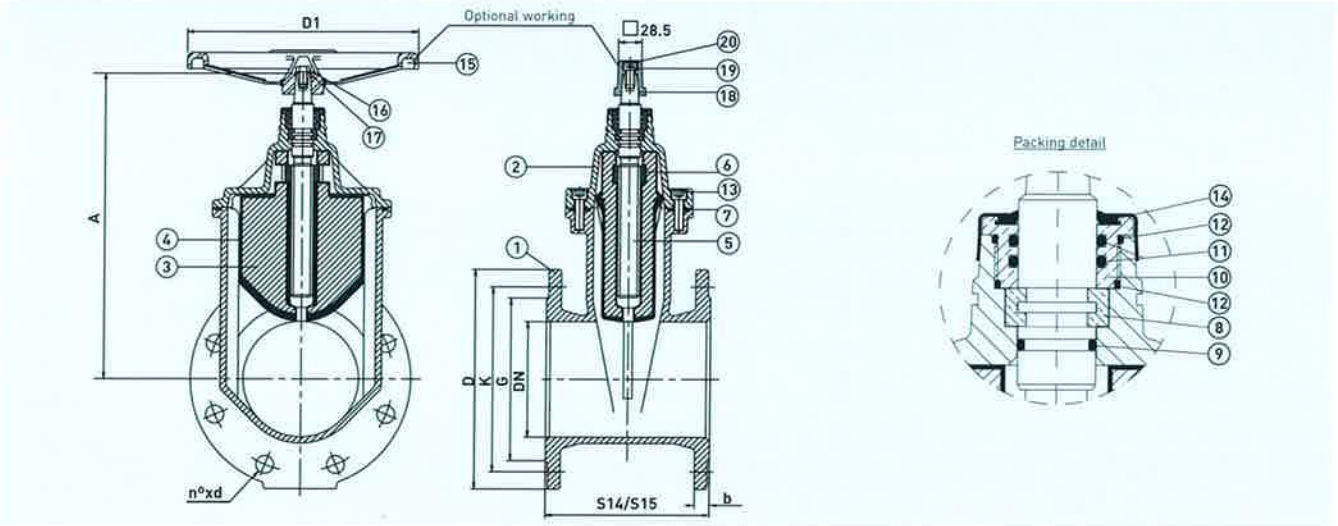


BV-05-47 Soft Sealing Gate Valve F4-F5 PN16



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr 13	EN 10080
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM D2000
12	O-ring (s. nut / bonnet)	2	NBR	ASTM D2000
13	Body bonnet bolt	acc/DN	8.8 steel (GEOMET coated)	DIN-912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X 5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X 5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X 5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	

PN-10/16 / DN-40/350*



DN	D	b	EN 1092-2 PN 10			EN 1092-2 PN-16			EN 558 (DIN 3202)		Weight kg		A	D1	No. of turns for closing
			K	G	Nº x d	K	G	Nº x d	S14 (F-4)	S15 (F-5)	S14 (F-4)	S15 (F-5)			
40	150	19	110	84	4x19	110	84	4x19	140	240	7,90	8,25	192	125	10
50	165	19	125	99	4x19	125	99	4x19	150	250	9,55	10,50	202,5	125	12,5
65	185	19	145	118	4x19	145	118	4x19	170	270	12,90	14,00	233	150	13
80	200	19	160	132	4x19	160	132	8x19	180	280	15,95	17,85	268	175	16
100	220	19	180	156	8x19	180	156	8x19	190	300	21,95	23,73	310	200	20
125	250	19	210	184	8x19	210	184	8x19	200	325	27,75	31,83	357,5	250	25
150	285	19	240	211	8x23	240	211	8x23	210	350	38,98	41,70	398,5	300	30
200	340	20	295	266	8x23	295	266	12x23	230	400	59,58	66,00	488,5	350	33
250	400	22	350	319	12x23	355	319	12x28	250	450	90,60	108,95	581,5	400	45
300	455	24,5	400	370	12x23	410	370	12x28	270	500	125,75	146,30	656,5	500	50
*350	520	26,5	460	429	16x23	470	429	18x28	290	550	150,25	165,00	656,5	500	50

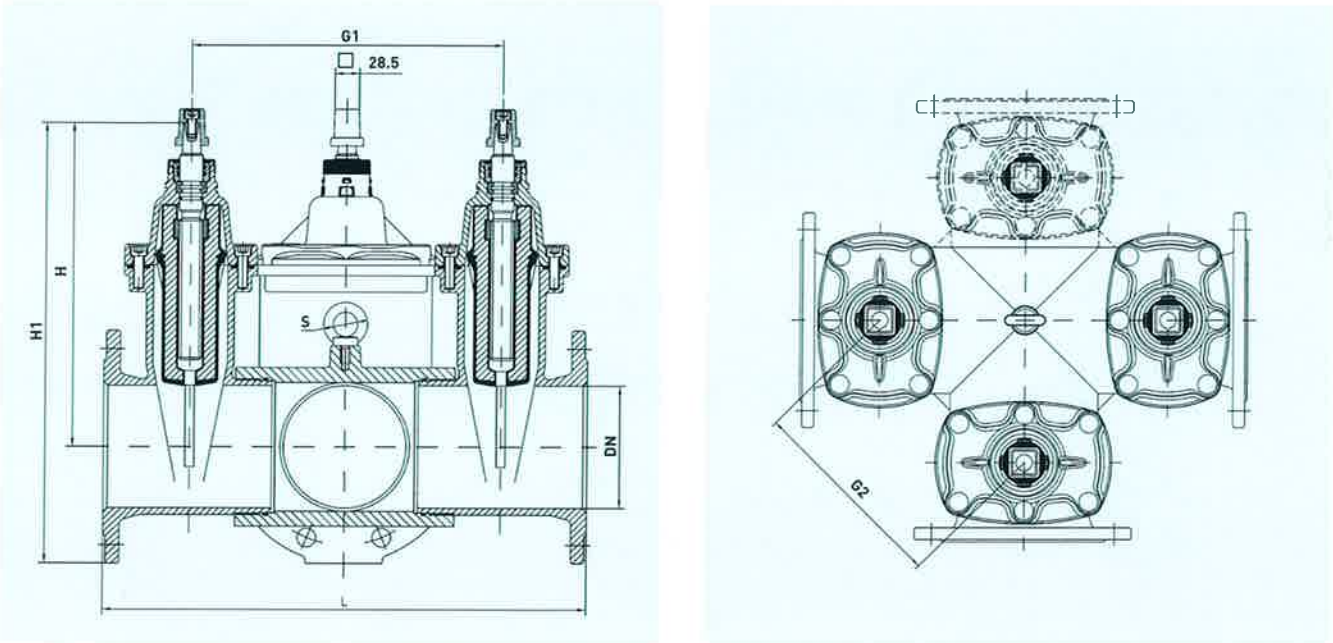
* Bore dimension 300 mm.



BV-05-47 Soft Sealing Gate Valve Assemblies Belgi-3 and Belgi-4



PN-10/16 / DN-50/300



BV-05-47

Soft Sealing Gate Valve

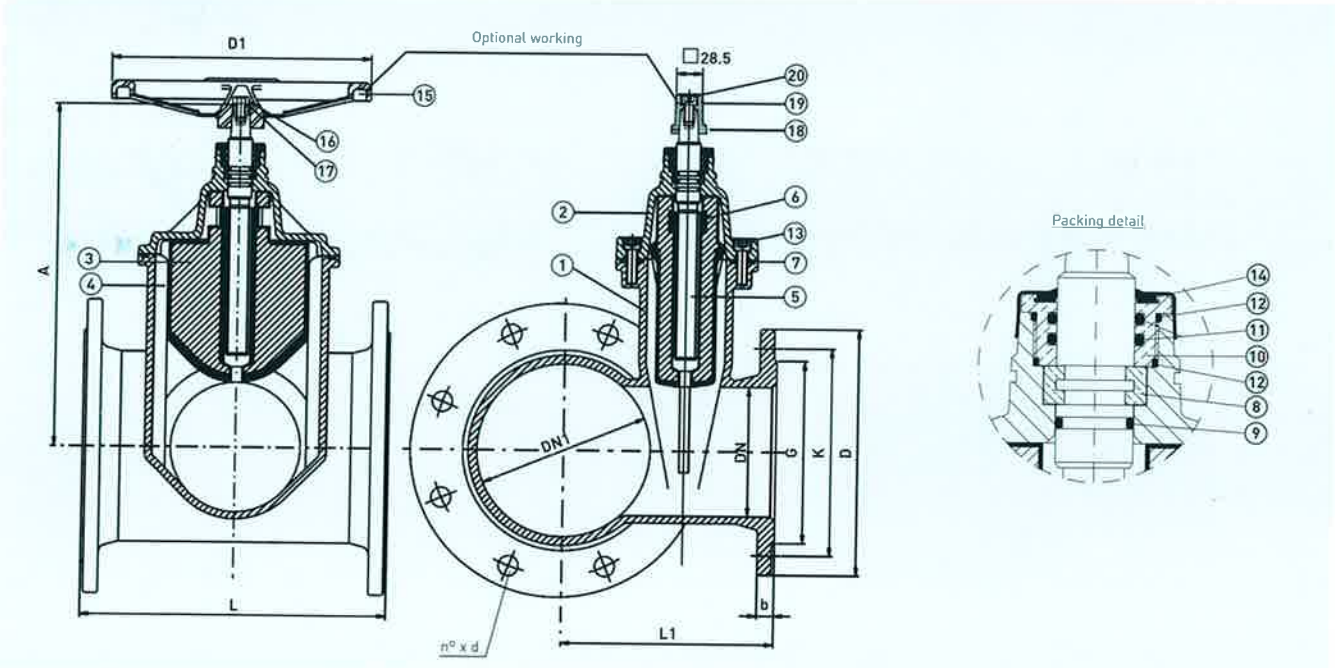
Belgi-T



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr 13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	NBR	ASTM D2000
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM D2000
12	O-ring (s. nut / Bonnet)	2	NBR	ASTM D2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X 5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X 5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X 5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	

This combination has been designed to make easier the installation of a deviation in the pipe. The advantage of this system is that it saves gaskets and space.

PN-10/16 / DN-80/200



DN	EN 1092-2 PN-10					EN 1092-2 PN-16					A	D1	No. turns for closing
	D	K	G	b	Nr. x d	D	K	G	b	Nr. x d			
80	200	160	132	19	4 x 19	200	160	132	19	8 x 19	268	175	16
100	220	180	156	19	8 x 19	220	180	156	19	8 x 19	310	200	20
150	285	240	211	19	8 x 23	285	240	211	19	8 x 23	398.5	300	30
200	340	295	266	20	8 x 23	340	295	266	20	12 x 23	488.5	350	33

NOTE: The flanges on the pipe are drilled and sized according to EN 1092-2 - PN-10/16 for each DN.

DN 1	80	100	150	200
A	268	268	310	268
L1	165	175	180	200
L	280	280	300	280
DN	80	80	100	80



BV-05-47

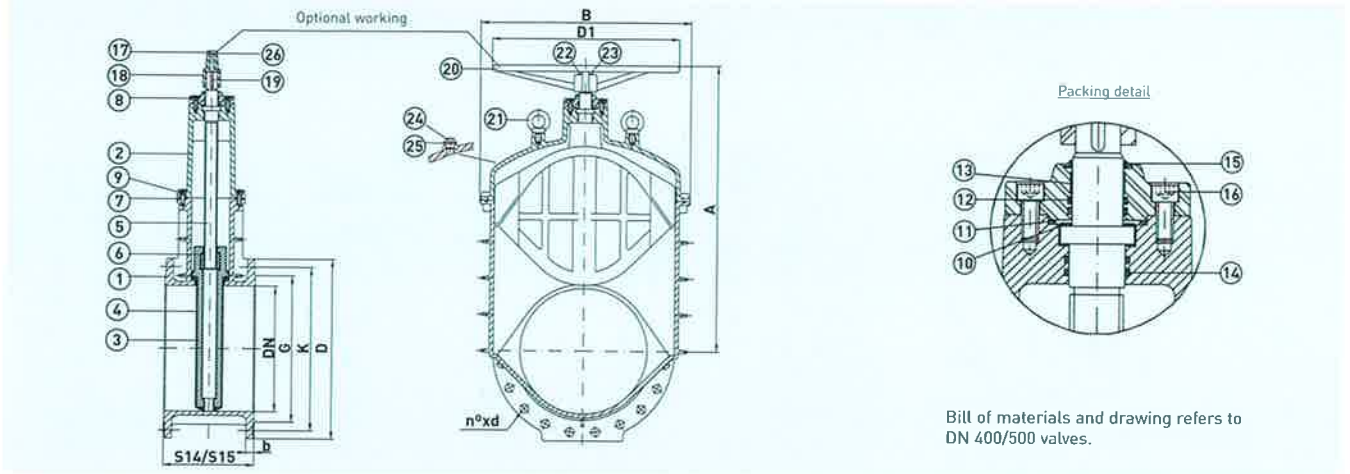
Soft Sealing Gate Valve

F4-F5 PN16



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10080
6	Wedge lock nut	1	Bronze Rg. 5	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Top bonnet	1	F-1141 Steel	36011
9	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
10	Washer	2	Bronze Rg. 5	DIN 1705
11	Bonnet-top bonnet o ring	1	NBR	ASTM D2000
12	Washer	2	NBR	ASTM D2000
13	Guide gland	1	Teflon with graphite	
14	Bonnet. o ring	2	NBR	ASTM D2000
15	Dust guard	1	EPDM	
16	Top bonnet bolt	6	8.8 steel (GEOMET coated)	DIN 912
17	Square cap bolt	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Colter	1	F-114 steel	UNE 3604
20	Handwheel	1	St 42 steel	DIN 17100
21	Eyebolt	2	C 15 steel	DIN 17210
22	Handwheel washer	1	X5 CrNi 18 10	EN 10088
23	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
24	Draining plug	1	8.8 steel (GEOMET coated)	
25	O ring draining plug	1	NBR	ASTM D2000
26	Square cap top	1	Lupolen	

PN-10/16 / DN-350/1200



DN	D	b	EN 1092-2 PN 10			EN 1092-2 PN 16			DIN 3202		A	B	D1	Weight kg		No. of turns for closing
			K	G	No. x d	K	G	No. x d	S14 (F4)	S15 (F5)				S14 (F4)	S15 (F5)	
350	520	26.5	460	429	16x23	470	429	16x28	310	600	750	478	500	185	-	50
400	580	28	515	482	16x28	525	480	16x31	310	600	970	660	630	275	325	57
*450	640	28	565	532	20x28	585	550	20x31	330	650	970	660	630	360	425	57
500	715	31.5	620	585	20x28	650	609	20x34	350	700	1103	828	800	456	530	63

* Bore dimension is 400 mm.

DN	D	b	EN 1092-2 PN 10			EN 1092-2 PN 16			DIN 3202		A	B	D1	Weight kg		No. of turns for closing
			K	G	No. x d	K	G	No. x d	S14 (F4)	S15 (F5)				S14 (F4)	S15 (F5)	
600	840	36	725	682	20x31	770	720	20x37	390	800	1280	854	800	950	1100	60
*700	910	39.5	840	794	24x31	840	794	24x37	-	900	1280	854	800	-	1300	60
800	1025	43	950	901	24x34	950	901	24x40	470	-	1678	1120	-	2000	-	133
*900	1125	46.5	1050	1001	28x34	1050	1001	28x40	-	1100	1678	1120	-	-	2300	133
1000	1255	50	1160	1112	28x37	1170	1112	28x43	550	-	2100	1338	-	3040	-	166
*1200	1485	57	1380	1328	32x40	1390	1328	32x49	-	1400	2100	1338	-	-	3300	166

* Bore dimension is DN 600, 800, 1000 mm.

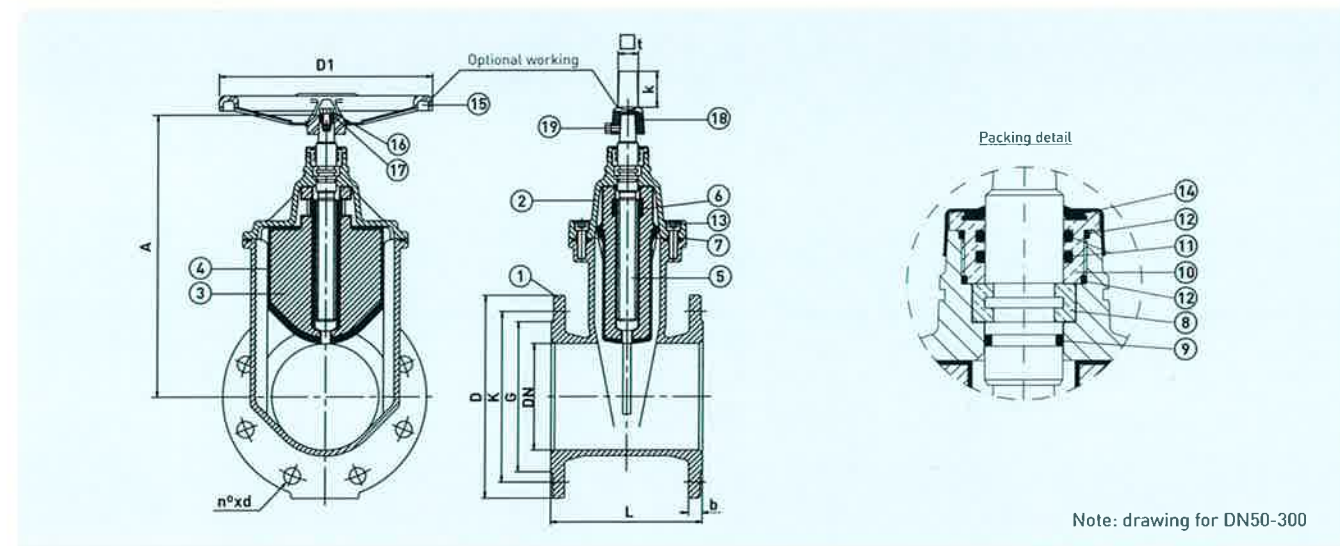
DN800 and bigger sizes are supplied with ISO top flange as standard manufacturing.

BV-05-47 Soft Sealing Gate Valve BS



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr 13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM D2000
12	O ring (s. nut / Bonnet)	2	NBR	ASTM D2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X 5 CrNi 18 10	EN 10088
17	Handwheel waher	1	X 5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X 5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	

PN-10/16 / DN-50/600

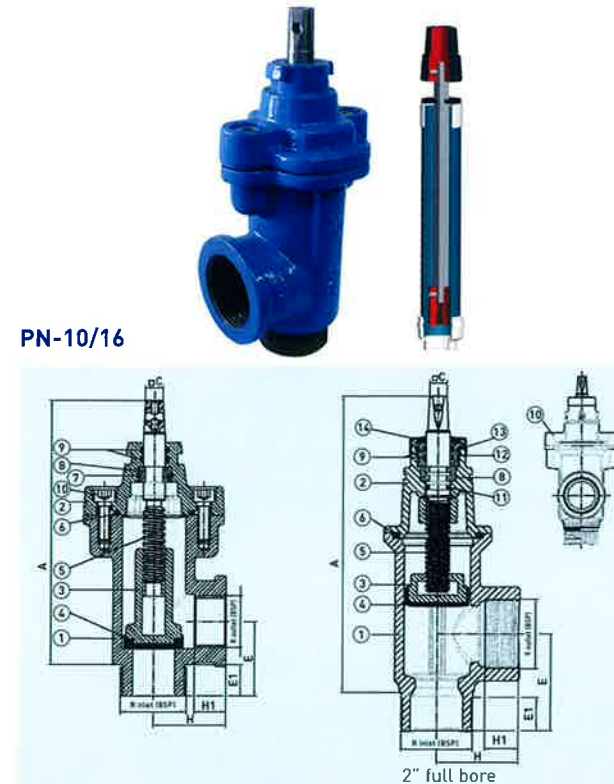


DN	D	b	EN 1092-2 PN-10			EN 1092-2 PN-16			EN 558 Ser.3 L	Weight kg	A	D1	□ t	k	Nr.turns for closing
			K	G	n° xd	K	G	n° xd							
50	165	19	125	99	4x19	125	99	4x19	178	10,25	202,5	125	35	63	12,5
65	185	19	145	118	4x19	145	118	4x19	190	13,40	233	150	35	63	13
80	200	19	160	132	8x19	160	132	8x19	203	17,00	268	175	35	63	16
100	220	19	180	156	8x19	180	156	8x19	229	22,20	310	200	35	63	20
125	250	19	210	184	8x19	210	184	8x19	254	30,80	357,5	250	35	63	25
150	285	19	240	211	8x23	240	211	8x23	267	40,20	398,5	300	35	63	30
200	340	20	295	254	8x23	295	266	12x23	292	63,50	488,5	350	35	63	33
250	400	22	350	309	12x23	355	319	12x28	330	99,00	581,5	400	35	63	45
300	455	24,5	400	363	12x23	410	370	12x28	356	132,80	656,5	500	35	63	50
350	520	35	460	429	16x23	470	429	16x28	381	253,00	750	500	48	75	50
400*	580	36,5	515	480	16x28	525	480	16x31	406	315,00	971	630	48	75	57
450	640	39,5	565	530	20x28	585	548	20x31	432	402,00	971	630	48	75	57
500	715	42	620	582	20x28	650	609	20x34	457	580,00	1103	800	48	75	63
600	840	47,5	725	682	20x31	770	720	20x37	508	1023,00	1280	800	48	75	60

* Bore dimension 400 mm.



BV-05-11 Vertical Tapping Valve



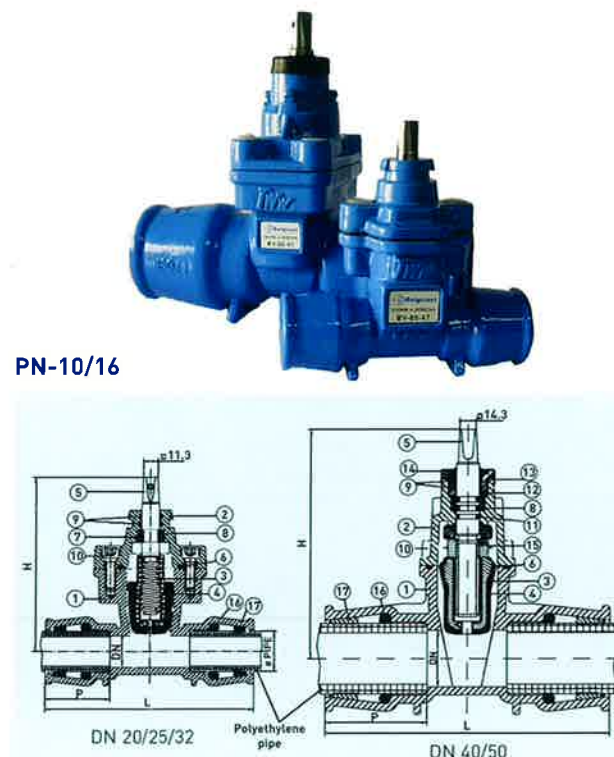
PN-10/16

Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	Brass	CuZn40 Pb2
4	Wedge joint	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Body bonnet gasket	1	EPDM	EN 681-1
7	Fix ring	1	X 12 CrNi 17-7	DIN 17224
8	Fix washer	1	Bronze Rg 5/Latón*	DIN 1705/ CuZn40 Pb2
9	Packing o-ring	2	NBR	ASTM D2000
10	Body bonnet bolt	2	8.8 steel (GEOMET coated)	DIN 912
11	Lower o-ring	1	EPDM	EN 681-1
12	Stuffing nut	1	Brass	CuZn40 Pb2
13	Stuffing nut o ring	1	NBR	ASTM D2000
14	Dust guard	1	EPDM	

* For 2" full bore.

R (BSP) inlet	R (BSP) outlet	H	H1	E	E1	A	□ c
1 1/4"	1" 1 1/4"	46	20	47,5	20	168	11,3
2" reduced bore	1 1/2" 2"	56	25	65	25	183	11,3
2" full bore	1 1/2" 2"	69	35	83	30	250	14,3

BV-05-47 Soft Sealing Gate Valve Socket ends for polyethylene pipe



PN-10/16

Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	Brass/GGG-50*	CuZn40 Pb2/EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Body bonnet gasket	1	EPDM	EN 681-1
7	Fix ring	1	X12 CrNi 17-7	DIN 17224
8	Fix washer	1	Bronze Rg 5/Brass*	DIN 1705/ CuZn40 Pb2
9	Packing o-ring	2	NBR	ASTM D2000
10	Body bonnet bolt	2 / *4	8.8 steel (GEOMET coated)	DIN 912
11	Lower o-ring*	1	NBR	ASTM D2000
12	Stuffing nut*	1	Brass	CuZn40 Pb2
13	Stuffing nut o-ring*	2	NBR	ASTM D2000
14	Dust guard*	1	EPDM	
15	Wedge lock nut*	1	Copper alloy	EN 12165
16	Tightness o-ring	1	NBR	ASTM D2000
17	Grip ring	1	PVC	

* For DN 40/50.

DN	Ø Pipe	L	P	H	No. turns for closing
20	20	125	40	137	5
20	25	150	45	137	5
25	32	165	50	139	6,5
32	40	210	75	143	8
40	50	240	91	192	10
50	63	280	105,5	202,5	12,5

BV-05-47

Soft Sealing Gate Valve

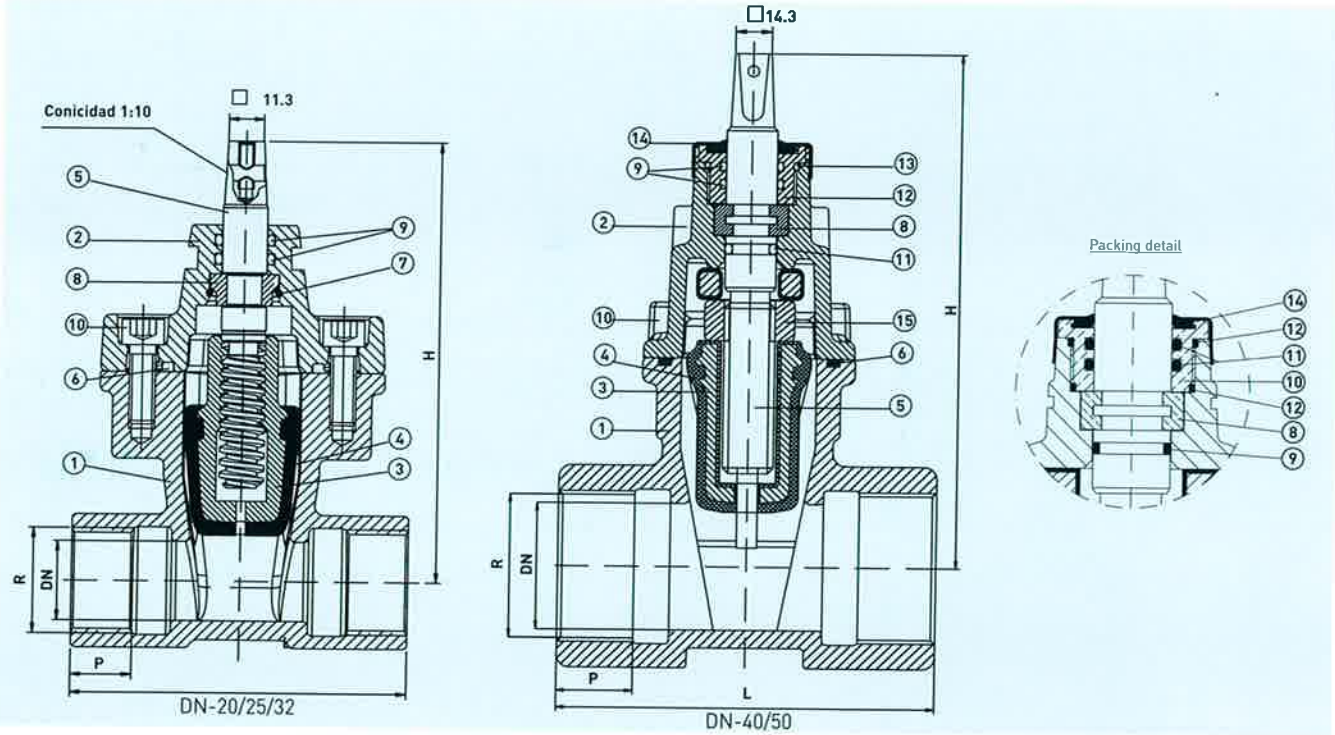
Threaded Ends



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	Brass/ EN-GJS-500-7 (GGG-50)*	CuZn40 Pb2/EN 1563
4	Wedge joint	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Body bonnet gasket	1	EPDM	EN 681-1
7	Fix ring	1	X 12 CrNi 17-7	DIN 17224
8	Fix washer	1	Bronze Rg 5	DIN 1705
9	Packing o ring	2	NBR	ASTM D2000
10	Body bonnet bolt	2 (*4)	8.8 steel (GEOMET coated)	DIN 912
11	Lower o ring*	1	EPDM	EN 681-1
12	Stuffing nut*	1	Brass	
13	Stuffing nut o-ring*	2	NBR	ASTM D2000
14	Dust guard*	1	EPDM	
15	Wedge lock nut*	1	Copper alloy	EN 12165

* For DN40/50.

PN-10/16 DN-20/50 (3/4" - 2")



DN	R (B.S.P.)	L	P	H	Weight kg	No. turns for closing
20	3/4"	95	15	137	2,15	5
25	1"	105	19	139	2,30	6,5
32	1 1/4"	120	24	143	2,65	8
40	1 1/2"	130	29	192	4,65	10
50	2"	150	39	202.5	6,00	12.5



BV-05-47

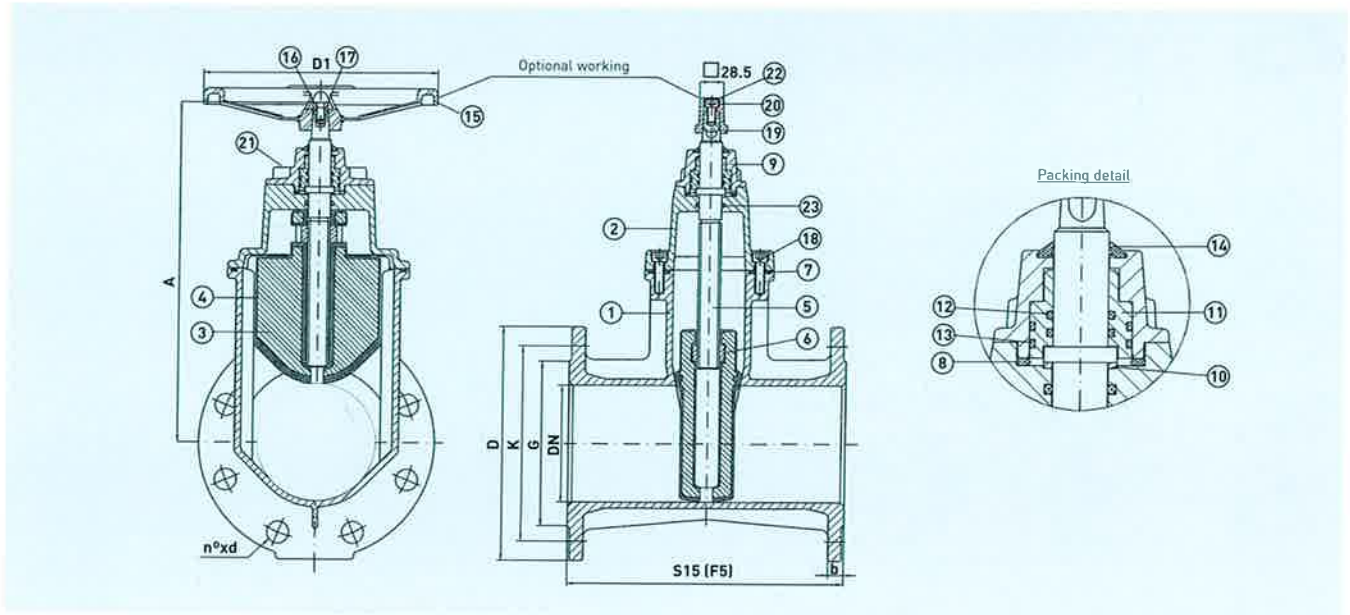
Soft Sealing Gate Valve

PN-25



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 13% Cr	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	O ring upper bonnet-lower bonnet	1	NBR	ASTM D2000
9	Upper bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
10	Washer	1	POM	
11	Gland	1	POM	
12	Internal o ring	2	NBR	ASTM D2000
13	External o ring	2	NBR	ASTM D2000
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
19	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
20	Square cap bolt	1	X5 Cr Ni 18 10	EN 10088
21	Upper bonnet-lower bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	
22	Square cap top	1	Lupolen	
23	O ring lower bonnet	1	NBR	ASTM D2000

DN-40/300 / PN 25

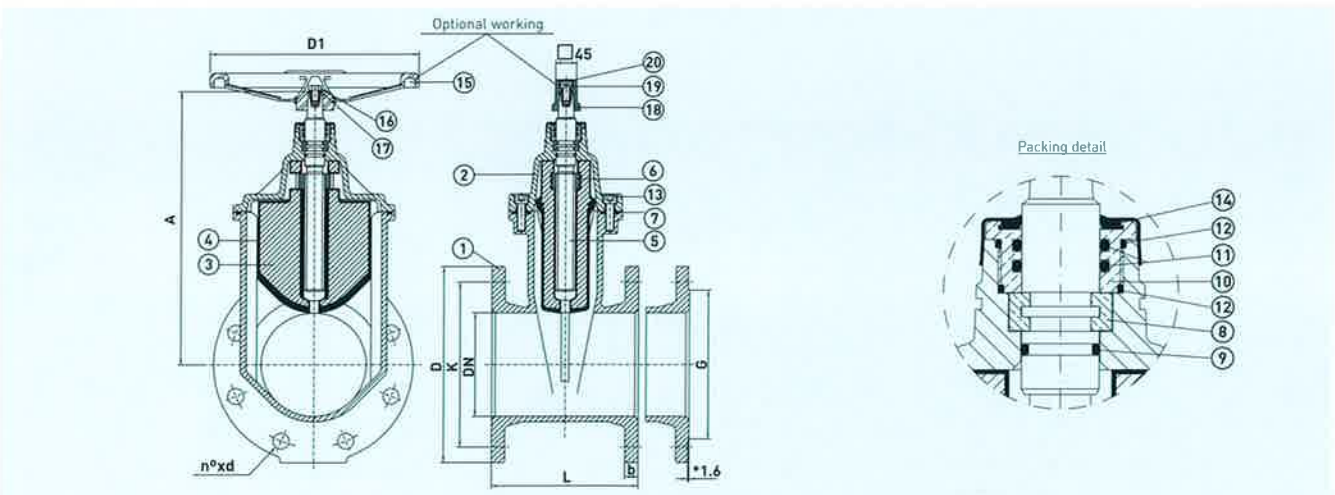


DN	EN 1092-2 PN-25					EN 558 DIN 3202 S15 (F5)	Weight kg	A	D1	Nr. Turns for closing
	D	K	G	b	Nº x d					
40	150	110	84	19	4 x 19	240	9,46	230	125	10
50	165	125	99	19	4 x 19	250	11,40	243.5	125	12.5
65	185	145	118	19	8 x 19	270	14,73	268	150	13
80	200	160	132	19	8 x 19	280	19,98	312	175	16
100	235	190	156	19	8 x 23	300	27,23	349	200	20
125	270	220	184	19	8 x 28	325	37,55	404	250	25
150	300	250	211	20	8 x 28	350	47,20	451.5	300	30
200	360	310	274	22	12 x 28	400	74,73	530	350	33
250	425	370	330	24.5	12 x 31	450	120,00	635.5	400	45
300	485	430	389	27.5	16 x 31	500	162,00	715.5	500	50

BV-05-47
Soft Sealing Gate Valve
ANSI



DN-50/300



DN		ANSI B16.1 Clase 125/150					L ANSI B16.10	Weight kg	A	D1	No. of turns closing
mm	pulg.	D	K	*G	b	n° x d					
50	2"	152.5	120.5	92.1	15.5	4x19	178	9,00	208,5	125	12.5
65	2 1/2"	178	140	104.8	17.5	4x19	190.5	12,90	245	150	13
80	3"	190.5	152.5	127	19	4x19	203	17,10	278	175	16
100	4"	229	190.5	157.2	24	8x19	229	25,50	317.5	200	20
125	5"	254	216	185.7	24	8x23	254	33,40	367.5	250	25
150	6"	279.5	241.5	215.9	25.5	8x23	266.5	42,30	408.5	300	30
200	8"	343	298.5	269.9	28.5	8x23	292	69,00	496.5	350	33
250	10"	406.5	362	323.8	30	12x25.5	330	108,20	589.5	400	45
300	12"	482.5	432	381	31.5	12x25.5	355.5	150,00	664.5	500	50

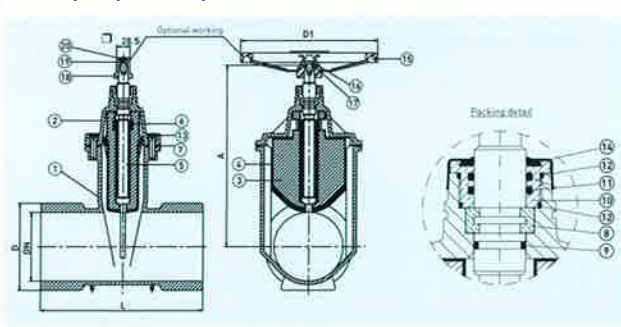
Flanges can be manufactured Flat Face or Raised Face (1,6mm), to be specified on PO.
Note: Bigger sizes upon request.



BV-05-47
Soft Sealing Gate Valve
Spigot ends



PN-10/16 / DN-50/300



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body-bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM 2000
12	O-ring (s. nut / bonnet)	2	NBR	ASTM 2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	

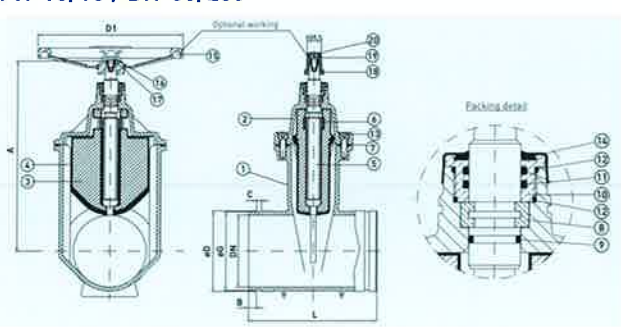
DN	D - Class of pipe					L	A	D1	Nr. turns for closing
	A	B	C	D	E-F				
50	-	67	67	67	67	250	202.5	125	12.5
60	-	77	77	77	77	270	233	150	13
70	-	89	89	89	89	270	233	150	13
80	-	101	101	101	101	280	268	175	16
100	119	119	119	119	125	300	310	200	20
125	149	149	149	149	156	325	357.5	250	25
150	174	174	174	174	187	350	398.5	300	30
200	222	222	222	232	E-236 / F-249	400	488.5	350	33
225	255	255	255	255	255	425	581.5	400	45
250	272	272	280	287	E-293 / F-311	450	581.5	400	45
300	326	326	330	339	E-353 / F-360	500	656.5	500	50

Note: DN400 dimensions upon request.

BV-05-47
Soft Sealing Gate Valve
Grooved ends



PN-10/16 / DN-80/200



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body-bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM 2000
12	O-ring (s. nut / bonnet)	2	NBR	ASTM 2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	

DN	øD	øG	L	B	C	Weight kg	A	D	Nr. turns for closing
80	89	85	203	16	8	12.5	268	175	16
100	114	110	229	16	10	14	310	200	20
150	168	164	267	16	10	28.5	398.5	300	30
200	219	214	292	19	11	47	488.5	350	33

BV-05-47

Soft Sealing Gate Valve

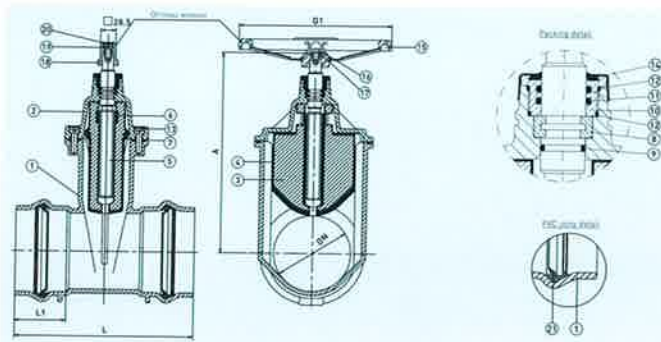
Coupling PVC pipe



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body-bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM 2000
12	O-ring (s. nut / bonnet)	2	NBR	ASTM 2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	
21	PVC joint	2	EPDM	UNE 53571



PN-10/16 / DN-50/400



BV-05-47

Soft Sealing Gate Valve

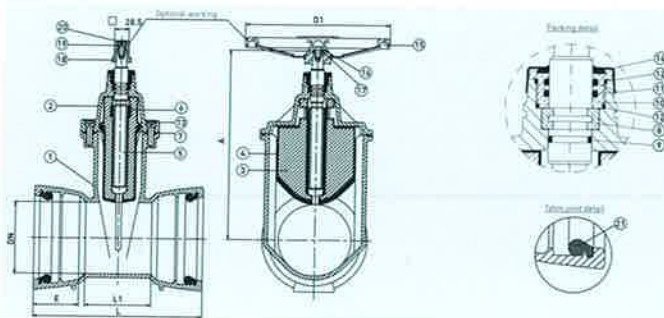
Tyton coupling for ductile pipe

Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper alloy	EN 12165
7	Body-bonnet gasket	1	EPDM	EN 681-1
8	Fix washer	1	Copper alloy	EN 12165
9	O-ring (stem)	1	EPDM	EN 681-1
10	Stuffing nut	1	Copper alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM 2000
12	O-ring (S. nut / bonnet)	2	NBR	ASTM 2000
13	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	
21	Tyton joint	2	EPDM	UNE 53571



Flexibility in the joints allows slight deflection and movement during the installation.
Electrical insulation between the pipe and valve prevents anodic etching.
Countersunk bolts protected by profiles and sealed to prevent weathering and contact corrosion.

PN-10/16 / DN-80/200



DN	O.D. pipe	A	L	L1	E	D1	Nr. turns for closing	Weight kg.
80	98	268	290	114	84	175	16	13
100	118	310	320	127	88	200	20	17.5
150	170	398.5	350	137	94	300	30	32
200	222	488.5	380	152	100	350	33	53



BV-05-47

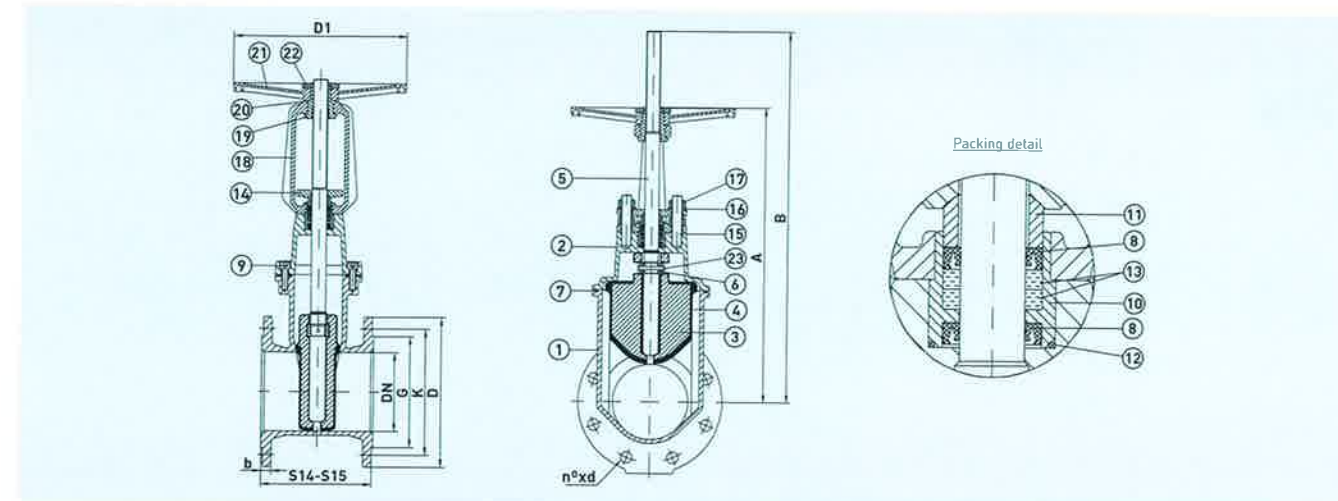
Soft Sealing Gate Valve

Outside Screw

Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM	EN 681-1
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper Alloy	EN 12165
7	Body bonnet gasket	1	EPDM	EN 681-1
8	Packing	2	EPDM	EN 681-1
9	Body bonnet bolt	acc./DN	8.8 steel (GEOMET coated)	DIN 912
10	Packing gland	1	Bronze Rg. 5	DIN 1705
11	Stuffing gland	1	Bronze Rg. 5	DIN 1705
12	O ring	1	NBR	ASTM D2000
13	Packing string	2	PTFE-Graphite	
14	Stuffing bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
15	Threaded stick	acc./DN	X5 CrNi 18 10	EN 10088
16	Washer	acc./DN	X5 CrNi 18 10	EN 10088
17	Nut	acc./DN	X5 CrNi 18 10	EN 10088
18	Top bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Stem nut	1	Bronze Rg. 5	DIN 1705
20	Handwheel washer	1	Bronze Rg. 5	DIN 1705
21	Handwheel	1	EN-GJS-500-7 (GGG-50)	EN 1563
22	Handwheel nut	1	Bronze Rg. 5	DIN 1705
23	Wedge pin	1	X5 CrNi 18 10	EN 10088



PN-10/16 / DN-40/350



DN	D	b	EN 1092-2 PN-10			EN 1092-2 PN-16			A	B	D1	EN 558 (DIN 3202)		Weight kg.		No. of turns closing
			K	G	No. x d	K	G	No. x d				S-14 (F-4)	S-15 (F-5)	S-14 (F-4)	S-15 (F-5)	
40	150	19	110	84	4x19	110	84	4x19	276	316	200	140	240	11	12	10
50	165	19	125	99	4x19	125	99	4x19	286	336	200	150	250	14	15	12.5
65	185	19	145	118	4x19	145	118	4x19	327	392	225	170	270	18.5	19.5	13
80	200	19	160	132	4x19	160	132	8x19	405	485	225	180	280	24	25.5	16
100	220	19	180	156	8x19	180	156	8x19	442	542	275	190	300	28	30	20
125	250	19	210	184	8x19	210	184	8x19	552	677	325	200	325	39.5	41	25
150	285	19	240	211	8x23	240	211	8x23	591	741	325	210	350	44	50	30
200	340	20	295	266	8x23	295	266	12x23	734	934	375	230	400	75	83	33
250	400	22	350	319	12x23	355	319	12x28	921	1171	500	250	450	110	125	45
300	455	24.5	400	370	12x23	410	370	12x28	998	1298	500	270	500	145	165	50
*350	520	26.5	460	429	16x23	470	429	18x28	998	1298	500	290	550	159	181	50

* Bore dimension is 300 mm Ø.

BV-05-47

Soft Sealing Gate Valve

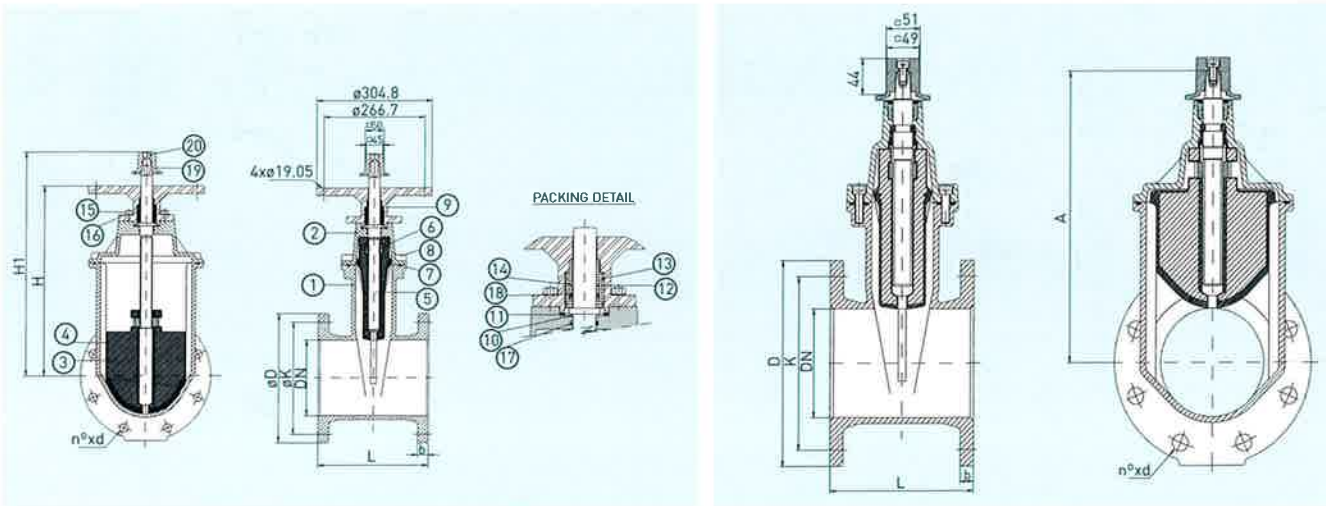
FM/Fire Protection Products



Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	NBR	EN 682
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper Alloy	EN 12165
7	Body bonnet gasket	1	NBR	EN 682
8	Body bonnet bolt	acc./DN	8,8 steel (GEOMET coated)	DIN 912
9	Coupling	1	Steel F114	EN 10083-1
10	Washer	1	POM	
11	Bonnet-top bonnet o ring	1	NBR	ASTM D2000
12	Stuffing box gland	1	POM	
13	O ring ext.	2	NBR	ASTM D2000
14	O ring int.	1	NBR	ASTM D2000
15	Bonnet coupling bolt	acc./DN	X5 CrNi 18 10	EN 10088
16	Washer	acc./DN	X5 CrNi 18 10	EN 10088
17	Bonnet o ring	1	NBR	ASTM D2000
18	Packing	1	NBR	ASTM D2000
19	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
20	Square cap bolt	1	X5 CrNi 18 10	EN 10088

(NRS) RESILIENT SEATED PRODUCTS

- Complying with FM 1120/1130 standard.
- Prepared with top flange for post indicator or free stem (optional square cap)
- Available with following end connections: flanged, Tyton joint and socket for PVC pipes.
- Hydraulic test to AWWA 509: Shell test: 400 psi (27,58 bar) / Seat test: 200 psi (13,79 bar)
- Internal and externally electrostatically applied fusion-bonded epoxy resin
- Vulcanized with NBR, complying with: Water Absorption (ASTM D 471 "Test for Rubber Property-Effect of Liquids") Aging (ASTM D 572 "Test for rubber deterioration by heat and oxygen") Suitable Bonding adequacy.



DN	ANSI B16.5				L ANSI B16.10	H	H1	A	N° Turns for closing
	ØD	ØK	b	n°xØd					
100	229	190,5	24	8xØ19	229	375	465	317,5	20
150	280	241,5	25,5	8xØ23	267	415	505	408,5	30
200	343	298,5	28,5	8xØ23	292	503,5	593,5	496,5	33
250	407	362	30	12xØ25,5	330	590	680	589,5	45
300	483	432	31,5	12xØ25,5	356	665	755	664,5	50

Belgicast

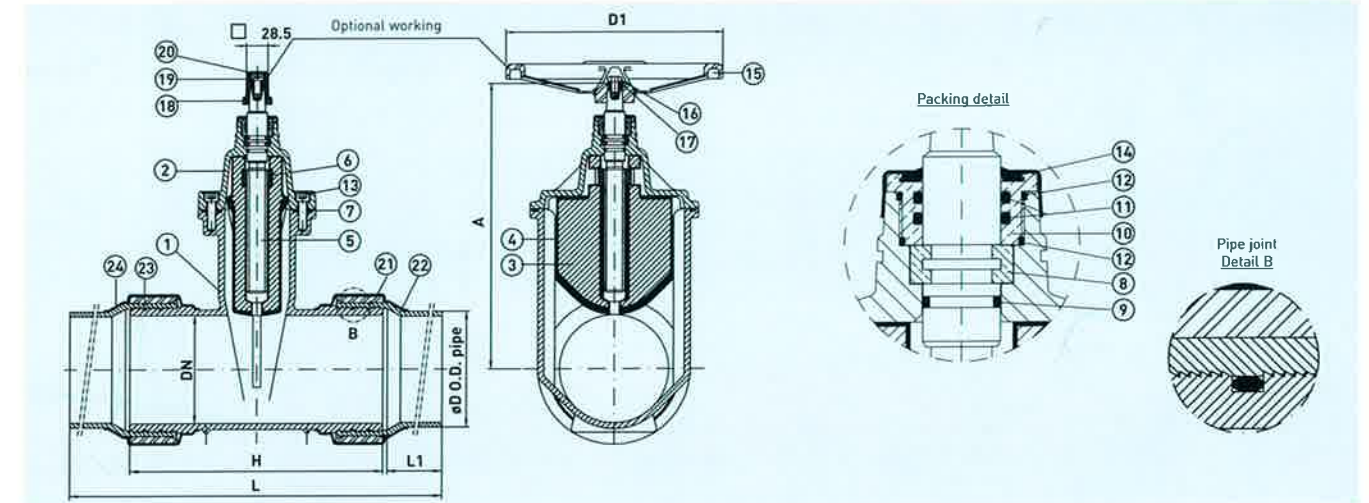


BV-05-47

Soft Sealing Gate Valve
Welding Polyethylene Ends

Item	Name	No. Pieces	Material	Standard
1	Body	1	EN-GJS-500-7 (GGG-50)	EN 1563
2	Bonnet	1	EN-GJS-500-7 (GGG-50)	EN 1563
3	Wedge	1	EN-GJS-500-7 (GGG-50)	EN 1563
4	Wedge coating	1	EPDM/NBR	EN 681-1/EN 682
5	Stem	1	X20 Cr13	EN 10088
6	Wedge lock nut	1	Copper Alloy	EN 12165
7	Body bonnet gasket	1	EPDM/NBR	EN 681-1/EN 682
8	Fix washer	1	Copper Alloy	EN 12165
9	O-ring (stem)	1	EPDM/NBR	EN 681-1/EN 682
10	Stuffing nut	1	Copper Alloy	EN 12165
11	O-ring (stuffing nut)	2	NBR	ASTM D2000
12	O-ring (s. nut / bonnet)	2	NBR	ASTM D2000
13	Body bonnet bolt	acc./DN	8,8 steel (GEOMET coated)	DIN 912
14	Dust guard	1	EPDM	
15	Handwheel	1	Stamped steel	
16	Handwheel bolt	1	X5 CrNi 18 10	EN 10088
17	Handwheel washer	1	X5 CrNi 18 10	EN 10088
18	Square cap	1	EN-GJS-500-7 (GGG-50)	EN 1563
19	Square cap bolt	1	X5 CrNi 18 10	EN 10088
20	Square cap top	1	Lupolen	
21	Pressure gasket	2	F-1141	UNE 36011
22	Pipe	2	Polyethylene	
23	Watertightness o-ring	4	EPDM/NBR	ASTM D2000
24	Retractable pipe for protection	2	Polimer	

PN-10/16 Ø PIPE (O.D.) 63/250 DN-50/200



DN	O.D. pipe	L	L1	H	A	D1	No. turns for closing
50	63	744	240	250	202,5	125	12,5
65	75	760	240	270	233	150	13
80	90	770	240	280	268	175	16
100	110	790	240	300	310	200	20
100	125	790	240	300	310	200	20
125	140	816	240	325	357,5	250	25
150	160	840	240	350	398,5	300	30
150	180	840	240	350	398,5	300	30
200	200	990	290	400	488,5	350	33
200	225	990	290	400	488,5	350	33
200	250	990	290	400	488,5	350	33

Polyethylene pipe:

- Water: PE100.
- Gas: PE80 or PE100.