



Abresan Tolou Mehr Company  
Producer of valves and under pressure joints

## Rubber Gate Valve



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ISO 9001:2008



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## Rubber Gate Valve

### Application:

Gate valves can be used as current stopper in completely closed state. These valves create a relatively lower chaos compared to other valves when opened and also the pressure decrease is not noticeable. Among applications of gate valves one can mention watering and industrial facilities including drinking water – raw water – sewage – and non-corrosive liquids of up to 70 degrees Celsius.

Nominal Pressure limit: PN-10PN16  
Nominal Size limit: DN-50DN500

Valve design according to standard DIN 3352 – part4  
Flange dimensions according to standard DIN EN 1092-1 (DIN2501)  
Face to face according to standard DIN EN 558-1 series 14/15 (DIN 3202 – F4 & F5)

### Valve features:

- Use of rubber flap with ductile cast iron core for optimal sealing
- Cap made of ductile cast iron EN-GJS15-400- / EN-GJS7-500-
- Mardon nut made of special brass

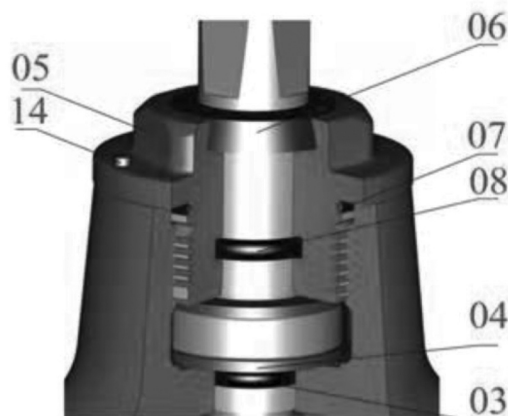
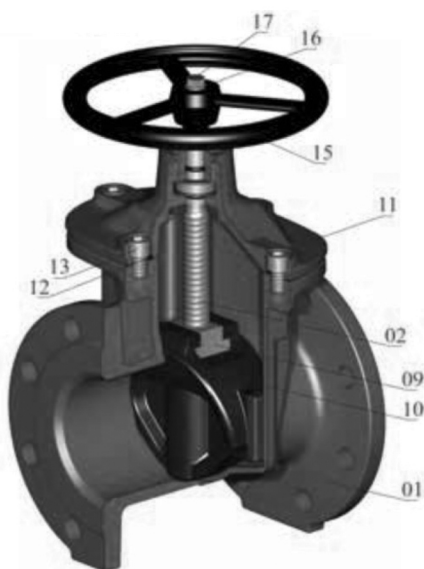
### Coating:

All cast iron parts: - Blue epoxy powder paint (RAL 5005 or RAL 5015)  
- Electrostatic furnace method

Pressure test *		
Pressure test with water (bar)		Nominal pressure (bar)
Body strength test	Sealing test	
10	11	15
16	17.6	24

\*According to standard DIN EN 12266-1

## Parts and components



Part no.	Part name	Part material	Spare parts
01	Body	EN-GJS 400 - 15	
02	Screw	X20Cr1.4021 / 13	●
03	O-ring shaft sealing	EPDM / NBR	●
04	Gasket	POM polyoxymethylene	●
05	Shaft chamber hexagon bolt	EN-GJS 400 - 15	
06	Round clipper	EPDM / NBR	●
07	O-ring chamber shaft sealing	EPDM / NBR	●
08	O-ring shaft sealing	EPDM / NBR	●
09	Screw bolt	2.0540 (Cu Zn 35 Ni F 45)	●
10	Flap	EN-GJS 400 - 15 core with EPDM or NBR coating	●
11	Cap	EN-GJS 400 - 15	
12	Cap O-ring	EPDM / NBR	
13	Allen screw	Galvanized Steel / A2	
14	Cylindrical screw	Steel DIN 7	●
15	Gate valve	EN-GJS 400 - 15	
16	Flat gasket	DIN ISO2-898 PROPERTY CLASS 8, ZINC PLATED	
17	Hexagon head screw	DIN ISO2-898 PROPERTY CLASS 8, ZINC PLATED	

(1) Can be produced with EN-GJS7-500- subject to customer order.

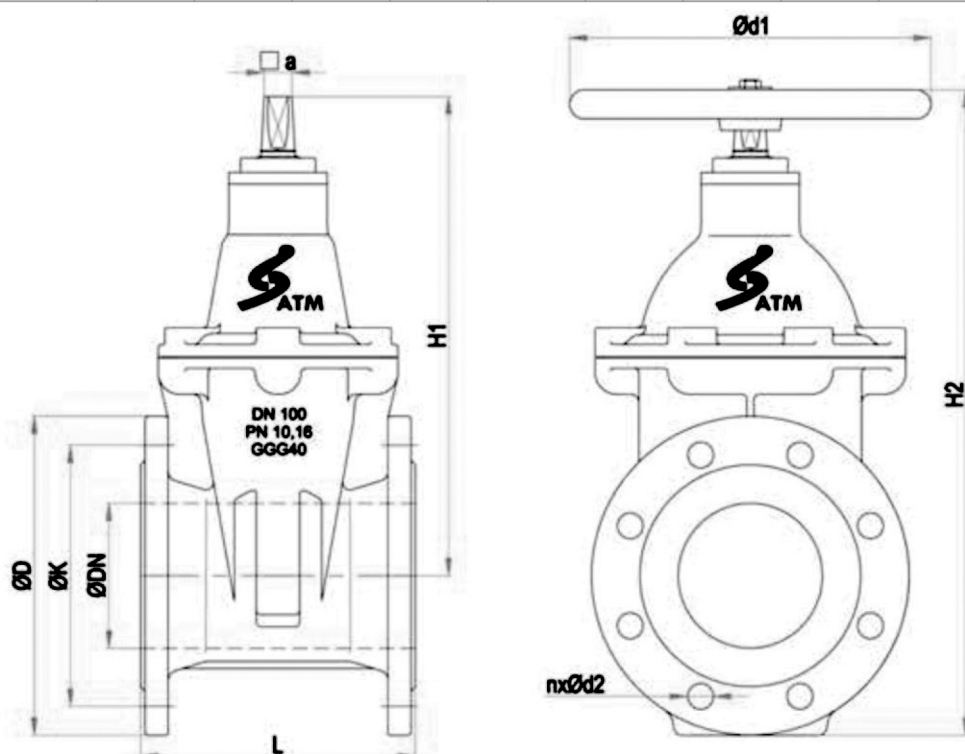
(2) Can be produced with Cu Zn 35 Ni F 45 subject to customer order.

Abresan Toloue Mehr Company reserves the right to change any dimension and specification to promote quality while considering related standards.

## Dimensions and Weight of the Rubber Gate valve (F4)

- DIN EN 1092-2(DIN 2501)
- DIN EN 558-1 SERIES 14 (DIN 3202 SERIES F4)

ØDN (mm)	PN (Bar)	L (mm)	H1 (mm)	H2 (mm)	• ØD (mm)	• ØK (mm)	n	• Ød2 (mm)	a	Ød1 (mm)	Weight (kg)
50	10/16	150	230	322	165	145	4	19	14	200	11.5
65	10/16	170	267	370	185	1145	4	19	17	200	15.5
80	10/16	180	290	400	200	160	8	19	17	200	17
100	10/16	190	330	470	220	180	8	19	19	250	22
125	10/16	200	385	536	250	210	8	19	19	250	31.5
150	10/16	210	418	592	285	240	8	23	19	250	38.5
200	10	230	522	722	340	295	8	23	24	360	60
200	16	230	522	722	340	295	12	23	24	360	60
250	10	250	651	887	400	350	12	23	27	500	105
250	16	250	651	887	400	355	12	28	27	500	105
300	10	270	723	964	455	400	12	23	27	500	152
300	16	270	723	964	455	410	12	28	27	500	152
350	10	290	815	1073	505	460	16	23	27	500	205
350	16	290	815	1073	520	470	16	28	27	500	260
400	10	310	893	1180	565	515	16	28	30	500	260
400	16	310	893	1180	580	525	16	31	30	500	260
500	10	350	1202	1540	670	620	20	28	34	550	350
500	16	350	1227	1585	715	650	20	34	34	550	350



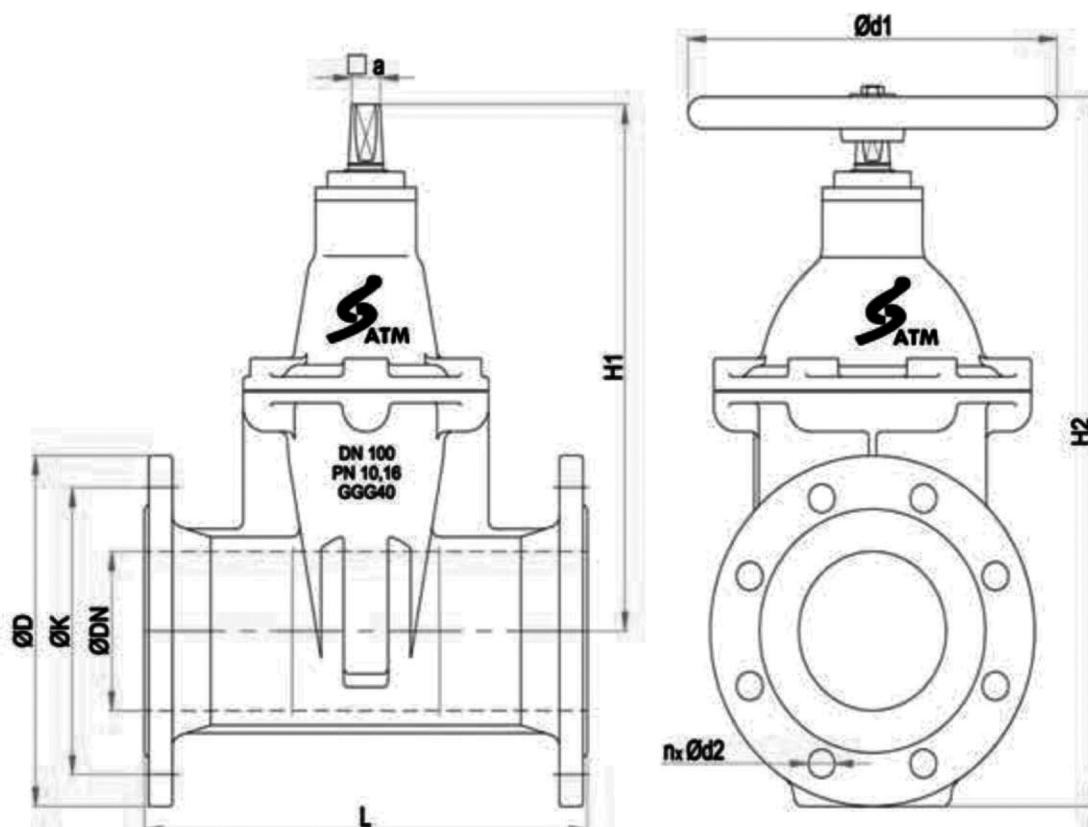
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## Dimensions and Weight of the Rubber Gate valve (F5)

- DIN EN 1092-2(DIN 2501)
- DIN EN 558-1 SERIES 15 (DIN 3202 SERIES F5)

ØDN (mm)	PN (Bar)	L (mm)	H1 (mm)	H2 (mm)	ØD (mm)	ØK (mm)	n	Ød2 (mm)	a (mm)	Ød1 (mm)	Weight (kg)
50	10/16	250	230	322	165	125	4	19	14	200	13
65	10/16	270	267	370	185	145	4	19	17	200	17
80	10/16	280	290	400	200	160	8	19	17	200	19
100	10/16	300	330	470	220	180	8	19	19	250	24
125	10/16	325	385	536	250	210	8	19	19	250	35
150	10/16	350	418	592	285	240	8	23	19	250	43
200	10	400	522	722	340	295	8	23	24	360	70
200	16	400	522	722	340	295	12	23	24	360	70
250	10	450	651	887	400	350	12	23	27	500	125
250	16	450	651	887	400	355	12	28	27	500	125
300	10	500	723	964	455	400	12	23	27	500	170
300	16	500	723	964	455	410	12	28	27	500	170



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## Guideline

### **Guidelines on transport and storage – installation and assembly and maintenance of Abresaan Tolou Mehr Company's Rubber Gate Valve**

- 1- To store rubber gate valve in warehouse the rubber sealing flap must be completely open.
- 2- To keep the color of the valves and the paraffin on the screws constant and to increase the life span of the elastic parts do not ever leave the valves under direct sunlight.
- 3- Be careful not to harm the coating during transfer and movement since it causes rust and corrosion.
- 4- Do not throw the valves while unloading from a truck since it causes damage to the shaft and the coating.

Note: the rubber gate valves are designed for connecting and disconnecting the liquid current so it must not be used to control the flow rate under any circumstance.

### **Installation and Assembly and Maintenance**

- 1- Connect the flanges to the pipe by welding (the flange holes must be facing each other).
- 2- Thoroughly clean the flange surfaces, inside the pipe and the welding location using wire brush and cleaning solution.
- 3- Degrease the valve flange sealing surface and related rubber gaskets thoroughly.
- 4- Abresan Tolou Mehr rubber gate valves are sealed on two sides and the flow direction of the network does not affect the valve's operation.
- 5- The liquid pressure must be freed before disconnecting valves from the network.
- 6- To increase life span and better operation of the rubber gate valves, the use of suitable strainer before the valve is recommended.
- 7- Abresan Tolou Mehr rubber gate valves that open with a gate valve are designed such that they are easily opened and closed manually so avoid using foreign force (lever) since it leads to destruction of the valve's components and sealing,
- 8- When using detriment valves, cover the surroundings with sieved sand.
- 9 - Avoid inflicting the valve during installation.
- 10 - If the condition of the passing liquid through the valve is such that there is too much dregs it is recommended that the valve be opened and closed according to dregs' severity (once every three months) and the inside of the valve be cleaned and descaled annually.
- 11- In case gate valves are required for liquids such as oil, acid and ... be sure to state the type of liquid at the time of order.