



GLOBE VALVE

YGV - YGVM - YGVS

2016 - 11

Globe Valves; operate as opening and closing procedure by pressing and depressing the plug connected to end of the plug spindle on to the flow cross section. Flow direction is one way as shown on valve. Globe valve must be preferred in case of the pressurised flow opened to atmosphere since the force obtained by the spindle press the plug on to the seat helps sealing.



Advantages

- *Provides sensible flow control*
- *Suitable for high pressure and temperature*
- *Able to frequently and many times open and close*
- *Have long packing life with non-rotating spindles*

Fluid Type

- *For clean, neutral or aggressive fluids*
- *For gas fluids*



Using Areas

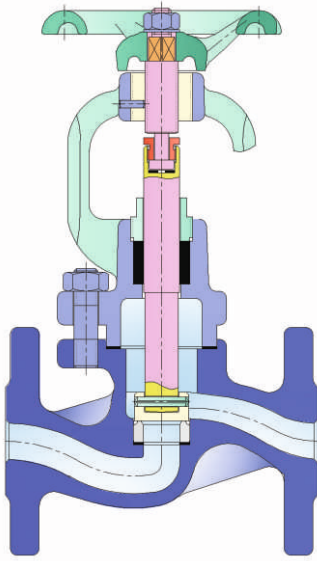
- *Hot and cold water facilities*
- *Steam facilities*
- *Hot oil facilities*
- *Petrochemical plants*
- *Machinery manufacturing etc.*

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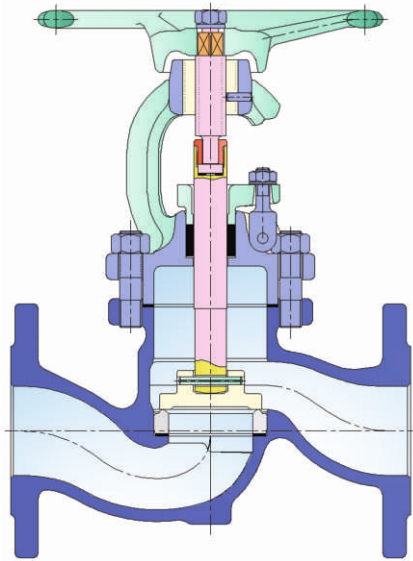
Yakacık Globe Valves



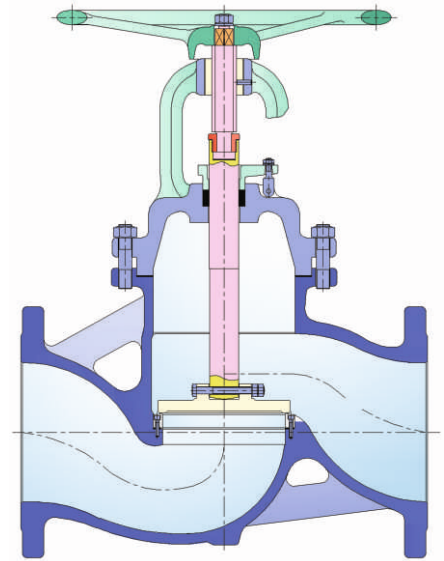
YGV DN15-50 Flanged



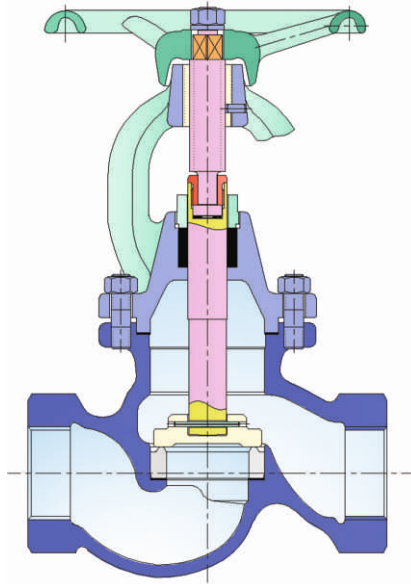
YGV DN65-200 Flanged



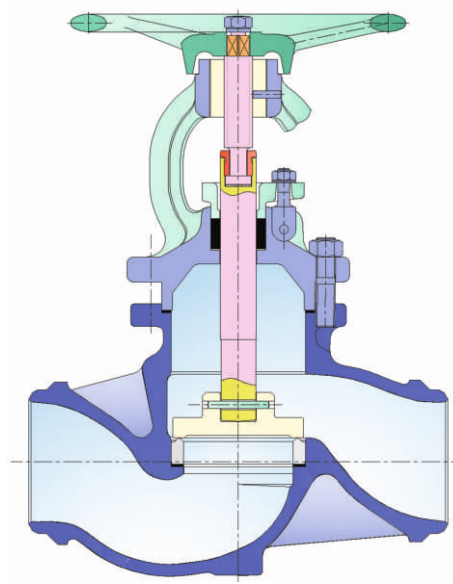
YGV DN250-300 Flanged

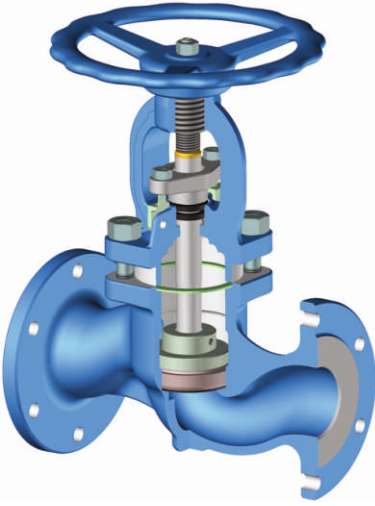


YGVM -YGVS 1/2" - 2" Screwed and Socket Welded



YGV DN65-200 Butt Welded





Sealing System

- Metal to metal sealing is provided by sitting the seat and the plug to each other...
- Since leakproofing is provided by the plug and the seat are being fixed each other on their surfaces, the fluid should be clean. There should be solid particles situated between these two surfaces. These particles may cause damages on the surfaces. That's why, filtering must be applied.
- If freezing and solidification are occurring when the temperature of used fluid decreases, body must be covered by thermal insulation.

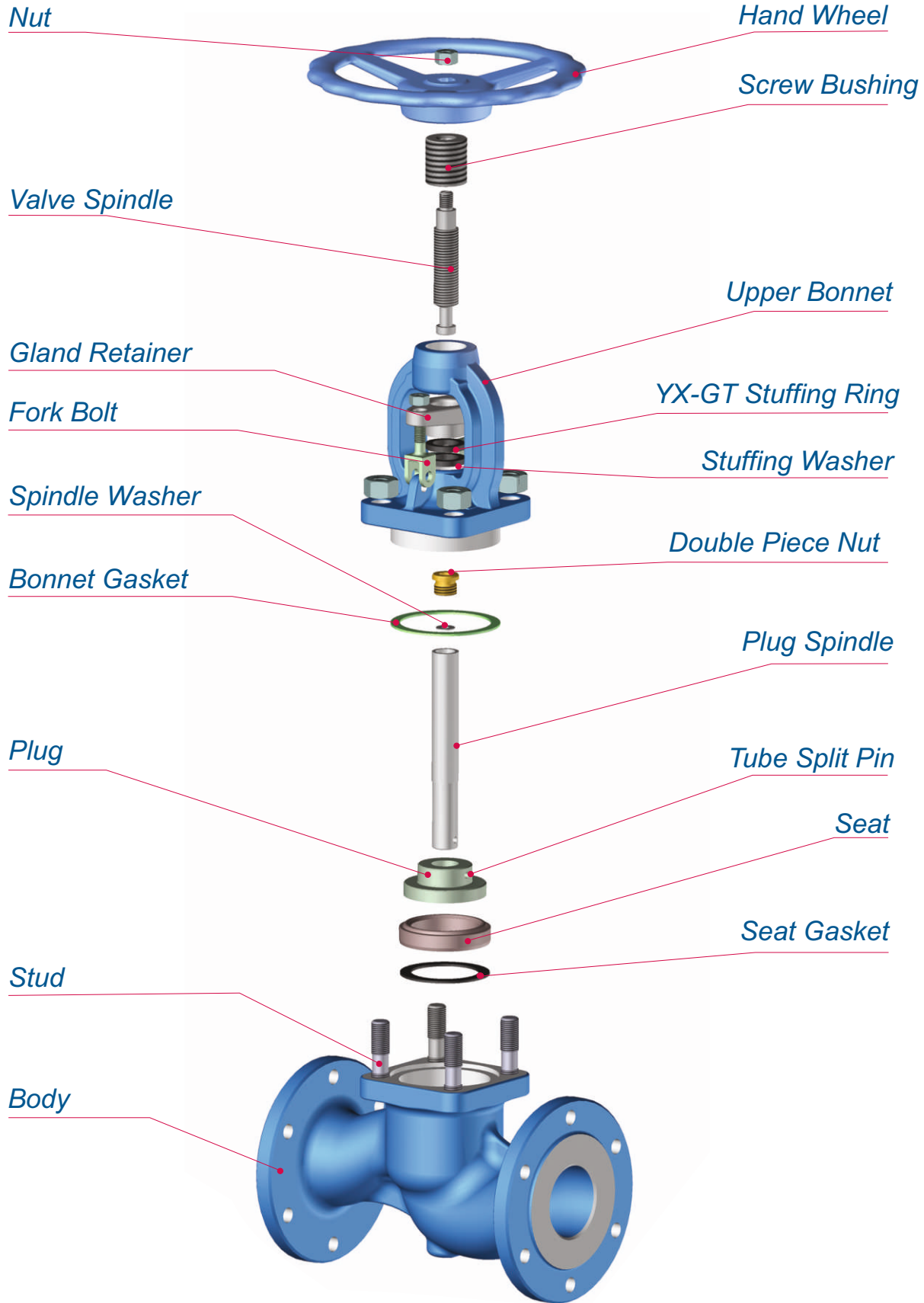


Sealing System

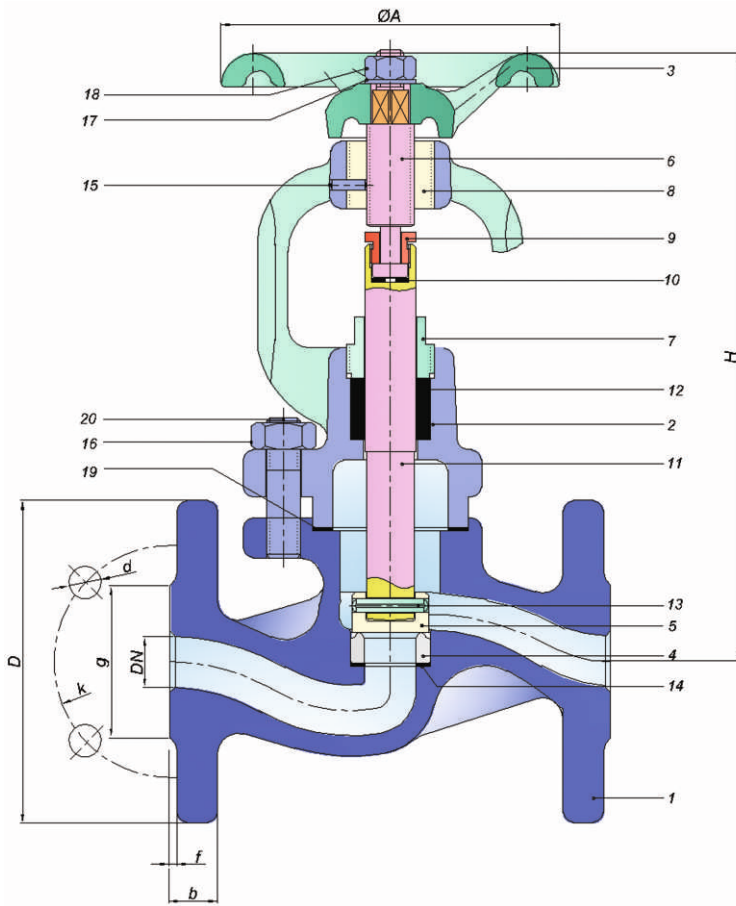
1. Bonnet gasket
 2. Plug
 3. Seat
 4. Seat gasket
 5. Stuffing ring
 6. Gland retainer
- Sealing from body to atmosphere is provided by one piece bonnet gasket. (wire knitted Graphite gasket or Graphite).
 - Sealing from the spindle to atmosphere is provided by the stuffing comprised of YX-GT rings.



Yakacık Globe Valve



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Globe Valve

DN 15 - 50

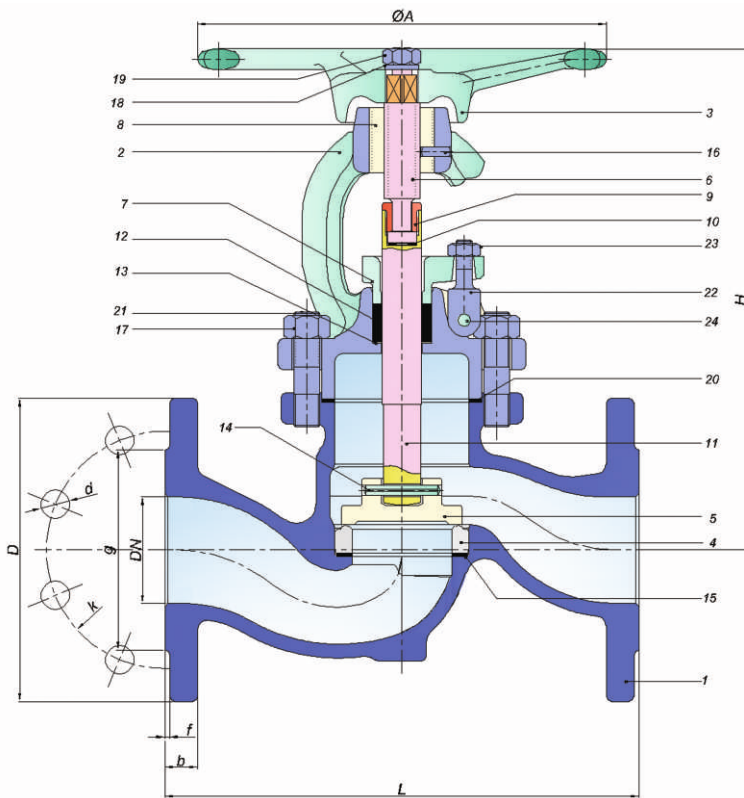
Type: YGV Flanged

Fluid Media to be Used in;

In all kind of fluids such as steam, high temperature hot water, hot water, water, heated oil, LPG, fuel oil, pressurised air, etc. (In the line of food matter, sugar, syrup, potable water etc. teflon ring should be used until the 150°C as upper and lower ring)

Material Type	Cast Iron	Ductile Iron	Cast Steel	St. Steel
Size	DN15-50	DN15-50	DN15-50	DN15-50
Pressure Class	PN16	PN25	PN40	PN40
Dimensions	DIN EN 558/1.serie	DIN EN 558/1.serie	DIN EN 558/1.serie	DIN EN 558/1.serie
Assembly	Flanged according to DIN EN 1092-2	Flanged according to DIN EN 1092-2	Flanged according to DIN EN 1092-1	Flanged according to DIN EN 1092-1
Temperature	-10°C +300 °C	-10°C +350 °C	-10°C * +400°C	-10°C * +400°C**
Material Code	II	III	VII	Xb
Order Code	YGV.2F___.00	YGV.8F___.00	YGV.7F___.00	YGV.9F___.00

P.No	Part Name	Cast Iron	Ductile Iron	Cast Steel	St. Steel	St. Steel
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Globe Valve

DN 65 - 200

Type: YGV Flanged

Fluid Media to be Used in;

In all kind of fluids such as steam, high temperature hot water, hot water, water, heated oil, LPG, fuel oil, pressurised air, etc. (In the line of food matter, sugar, syrup, potable water etc. teflon ring should be used until the 150°C as upper and lower ring)

Material Type	Cast Iron	Ductile Iron	Cast Steel	St. Steel
Size	DN65-200	DN65-200	DN65-200	DN65-200
Pressure Class	PN 16	PN25	PN40	PN40
Dimensions	DIN EN 558/1.serie	DIN EN 558/1.serie	DIN EN 558/1.serie	DIN EN 558/1.serie
Assembly	Flanged according to DIN EN 1092-2	Flanged according to DIN EN 1092-2	Flanged according to DIN EN 1092-1	Flanged according to DIN EN 1092-1
Temperature	-10°C +300 °C	-10°C +350 °C	-10°C * +400°C	-10°C * +400°C**
Material Code	II	III	VII	Xb
Order Code	YGV.2F.__.00	YGV.8F.__.00	YGV.7F.__.00	YGV.9F.__.00

P.No	Part Name	Cast Iron	Ductile Iron	Cast Steel	St. Steel	St. Steel
1	Body	GJL 250	0.7040	1.0619	1.4308	1.4408
2	Upper Bonnet	GJL 250	0.7040	1.0619	1.4308	1.4408
3	Hand Wheel	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200
4	Seat	1.4308	1.4308	1.4308	1.4308	1.4408
5	Plug	1.4308	1.4308	1.4308	1.4308	1.4408
6	Valve Spindle	St-42	St-42	1.4021/St-42	1.4301	1.4401
7	Gland Retainer	0.7040	0.7040	0.7040	1.4308	1.4308
8	Screw Bushing	Ms-58	Ms-58	Ms-58	Ms-58	Ms-58
9	Double Piece Nut	Ms-58	Ms-58	Ms-58	1.4301	1.4401
10	Washer	Ms-58	Ms-58	Ms-58	1.4301	1.4401
11	Plug Spindle	1.4104	1.4104	1.4104	1.4301	1.4401
12	Stuffing Ring	YX-GT	YX-GT	YX-GT	YX-GT/Teflon	YX-GT/Teflon
13	Stuffing Washer	St-42	St-42	St-42	1.4301	1.4401

P.No	Part Name	Cast Iron	Ductile Iron	Cast Steel	St. Steel	St. Steel
14	Tube Split Pin	55Si7	55Si7	55Si7	1.4301	1.4401
15	Seat Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
16	Pin	St-42	St-42	St-42	1.4301	1.4301
17	Hex Nut	8.8+Gal.	8.8+Gal.	8.8+Gal.	A2-70	A2-70
18	Label	Al	Al	Al	Al	Al
19	Nut	8.8+Gal.	8.8+Gal.	8.8+Gal.	A2-70	A2-70
20	Bonnet Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
21	Stud	8.8+Gal.	8.8+Gal.	8.8+Gal.	A2-70	A2-70
22	Fork Bolt	St-42	St-42	St-42	1.4301	1.4401
23	Hex Nut	8.8+Gal.	8.8+Gal.	8.8+Gal.	A2-70	A2-70
24	Tube Split Pin	55Si7	55Si7	55Si7	A2-70	A2-70
25	Disk Spring	50CrV4	50CrV4	50CrV4	50CrV4	50CrV4

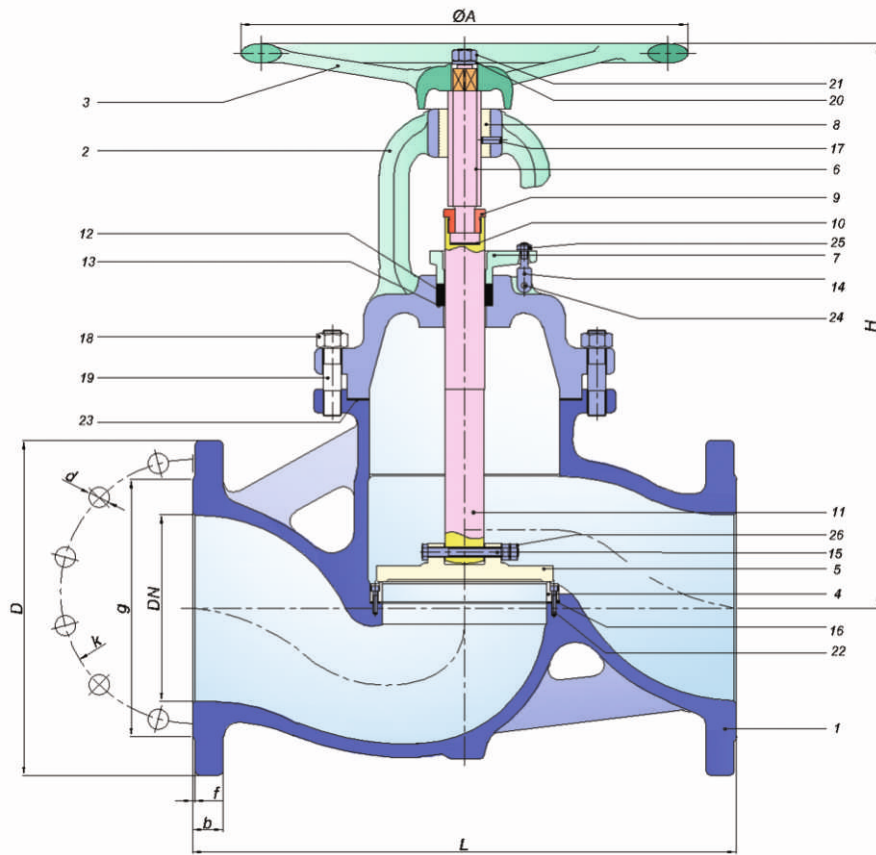
DN			Dimensions			Assembly Size																							
mm	inch	Type	L	H	A	PN16							PN25							PN40									
						D	g	Hole Nr.	k	b	f	d	D	g	Hole Nr.	k	b	f	d	D	g	Hole Nr.	k	b	f	d			
65	2 1/2"	YGV 65	290	305	250	185	122	4	145	20	3	18	185	118	8	145	22	3	19	185	122	8	145	22	2	18			
80	3"	YGV 80	310	330	250	200	138	8	160	22	3	18	200	132	8	160	22	3	19	200	138	8	160	24	2	18			
100	4"	YGV 100	350	375	280	220	158	8	180	24	3	18	235	156	8	190	24	3	23	235	162	8	190	24	2	22			
125	5"	YGV 125	400	440	320	250	188	8	210	26	3	18	270	184	8	220	26	3	28	270	188	8	220	26	2	26			
150	6"	YGV 150	480	480	360	285	212	8	240	26	3	22	300	211	8	250	28	3	28	300	218	8	250	28	2	26			
200	8"	YGV 200	600	560	400	340	268	12	295	30	3	22	360	274	12	310	30	3	28	375	285	12	320	34	2	30			

* Use stainless steel stud and nut below -10°C

** In case of using PTFE(teflon) as sealing +150°C

*** For DN100 and DN200, bolt and nut are A2-70

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Globe Valve

DN 250 - 300

Type: YGV Flanged

Fluid Media to be Used in;

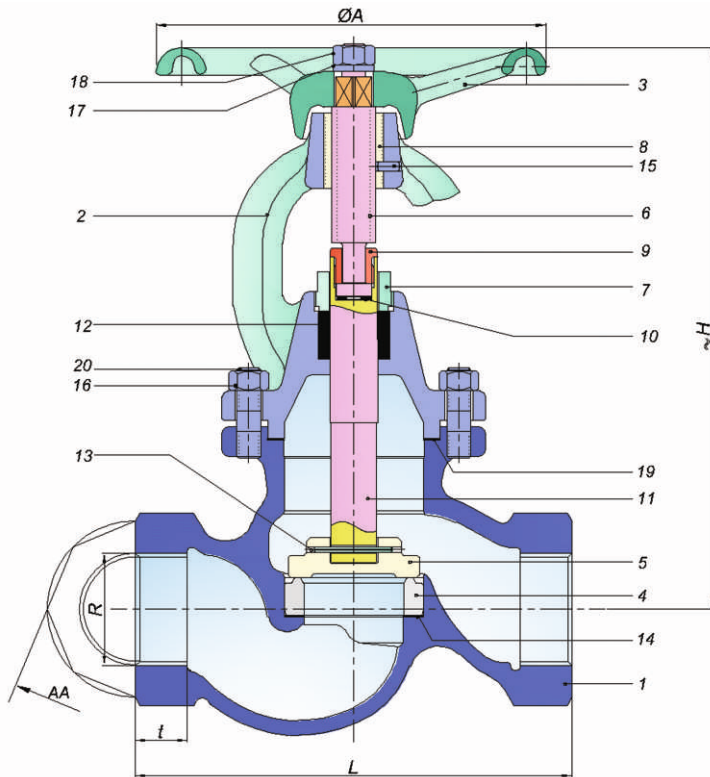
In all kind of fluids such as steam, high temperature hot water, hot water, water, heated oil, LPG, fuel oil, pressurised air, etc. (In the line of food matter, sugar, syrup, potable water etc. teflon ring should be used until the 150°C as upper and lower ring)

Material Type	Cast Iron	Cast Steel	St. Steel
Size	DN250-300	DN250-300	DN250-300
Pressure Class	PN16	PN40	PN40
Dimensions	DIN EN 558/1.serie	DIN EN 558/1.serie	DIN EN 558/1.serie
Assembly	Flanged according to DIN EN 1092-2	Flanged according to DIN EN 1092-1	Flanged according to DIN EN 1092-1
Temperature	-10°C +300 °C	-10°C * +400°C	-10°C * +400°C**
Material Code	II	VII	Xb
Order Code	YGV.2F___.00	YGV.7F___.00	YGV.9F___.00

P.No	Part Name	Cast Iron	Cast Steel	St. Steel	St. Steel	P.No	Part Name	Cast Iron	Cast Steel	St. Steel	St. Steel
1	Body	GJL 250	1.0619	1.4308	1.4408	14	Fork Bolt	St-42	St-42	1.4301	1.4401
2	Upper Bonnet	GJL 250	1.0619	1.4308	1.4408	15	Bolt	A2-70	A2-70	A2-70	A2-70
3	Hand Wheel	GJL 200	GJL 200	GJL 200	GJL 200	16	Seat Gasket	Graphite	Graphite	Graphite	Graphite
4	Seat	1.4308	1.4308	1.4308	1.4408	17	Pin	St-42	St-42	1.4301	1.4301
5	Plug	1.4308	1.4308	1.4308	1.4408	18	Nut	8.8+Gal.	8.8+Gal.	A2-70	A2-70
6	Valve Spindle	St-42	1.4021/St-42	1.4301	1.4401	19	Stud	8.8+Gal.	8.8+Gal.	A2-70	A2-70
7	Gland Retainer	0.7040	0.7040	1.4308	1.4308	20	Label	Al	Al	Al	Al
8	Screw Bushing	Ms-58	Ms-58	Ms-58	Ms-58	21	Notched Nut	8.8+Gal.	8.8+Gal.	A2-70	A2-70
9	Double Piece Nut	Ms-58	Ms-58	1.4301	1.4401	22	Seat Bolt	A2-70	A2-70	A2-70	A2-70
10	Washer	Ms-58	Ms-58	1.4301	1.4401	23	Bonnet Gasket	Graphite	Graphite	Graphite	Graphite
11	Plug Spindle	1.4104	1.4104	1.4301	1.4401	24	Tube Split Pin	55Si7	55Si7	1.4301	1.4301
12	Stuffing Ring	YX-GT*	YX-GT*	YX-GT/Teflon*	YX-GT/Teflon*	25	Nut	8.8+Gal.	8.8+Gal.	A2-70	A2-70
13	Stuffing Washer	St-42	St-42	1.4301	1.4401	26	Nut	A2-70	A2-70	A2-70	A2-70

DN			Dimensions			Assembly Size											
mm	inch	Type	L	H	A	PN16						PN40					
						D	d	g	Hole Nr.	k	b	f	D	d	g	Hole Nr.	k
250	10"	YGV 250	730	760	600	405	32	319	12	355	32	3	450	33	345	12	385
300	12"	YGV 300	850	860	600	460	28	370	12	410	32	4	515	34	409	16	450

* Use stainless steel stud and nut below -10°C
 ** In case of using PTFE(teflon) as sealing +400°C



Globe Valve

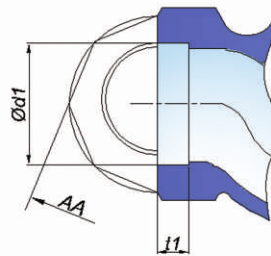
DN 1/2" - 2"

Type: YGVM Screwed

YGVF Socket

Fluid Media to be Used in;

In all kind of fluids such as steam, high temperature hot water, hot water, water, heated oil, LPG, fuel oil, pressurised air, etc. (In the line of food matter, sugar, syrup, potable water etc. teflon ring should be used until the 150°C as upper and lower ring)



Material Type	Cast Iron	Cast Steel	St. Steel
Size	DN1/2" -2"	DN1/2" -2"	DN1/2" -2"
Pressure Class	PN 16	PN40 DN 1/4" -2"	PN40 DN 1/4" -2"
Dimensions	DIN EN 3202-4/M9 (DN 1/4" except)	DIN EN 3202-4/M9 (DN 1/4" except)	DIN EN 3202-4/M9 (DN 1/4" except)
Assembly (screwed)	Screwed according to DIN EN ISO 228-1	Screwed according to DIN EN 12760	Screwed according to DIN EN 12760
Assembly (socket)	-----	Socket according to DIN EN ISO 228-1	Socket according to DIN EN ISO 228-1
Temperature	-10°C +300 °C	-10°C* +400 °C**	-10°C * +400°C**
Material Code	II	VII	Xb
Order Code (screwed)	YGV.2M.__.00	YGV.7M.__.00	YGV.9M.__.00
Order Code (socket)	-----	YGV.7S.__.00	YGV.9S.__.00

P.No	Part Name	Cast Iron	Cast Steel	St. Steel	St. Steel
1	Body	GJL 250	1.0619	1.4308	1.4408
2	Upper Bonnet	GJL 250	1.0619	1.4308	1.4408
3	Hand Wheel	GJL 200	GJL 200	GJL 200	GJL 200
4	Seat	1.4021	1.4021	1.4301	1.4401
5	Plug	1.4021	1.4021	1.4301	1.4401
6	Valve Spindle	St-42	1.4021/St-42	1.4301	1.4401
7	Gland Retainer	1.4104	1.4104	1.4301	1.4301
8	Screw Bushing	Ms-58	Ms-58***	Ms-58	Ms-58
9	Double Piece Nut	Ms-58	Ms-58	1.4301	1.4401
10	Washer	Ms-58	Ms-58	1.4301	1.4401

P.No	Part Name	Cast Iron	Cast Steel	St. Steel	St. Steel
11	Plug Spindle	1.4104	1.4104	1.4301	1.4401
12	Stuffing Ring	YX-GT	YX-GT	YX-GT/Teflon*	YX-GT/Teflon*
13	Tube Split Pin**	55Si7	55Si7	1.4301	1.4301
14	Seat Gasket	Graphite	Graphite	Graphite	Graphite
15	Pin	St-42	St-42	1.4301	1.4301
16	Hex Plug	8.8+Gal.	8.8+Gal.	A2-70	A2-70
17	Label	Al	Al	Al	Al
18	Nut	8.8+Gal.	8.8+Gal.	A2-70	A2-70
19	Bonnet Gasket	Graphite	Graphite	Graphite	Graphite
20	Stud	8.8+Gal.	8.8+Gal.	A2-70	A2-70

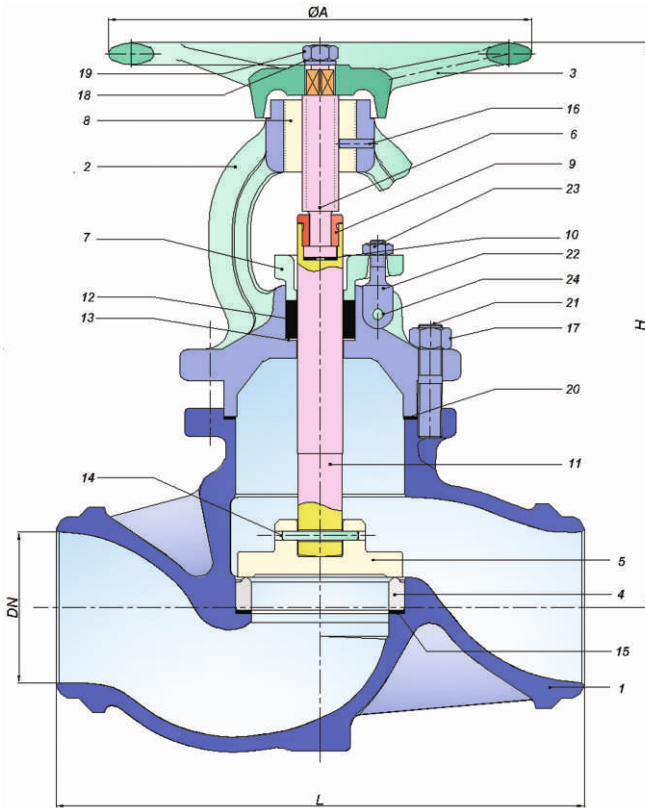
DN			Dimensions			Assembly				
mm	inch	Type	L	H	A	d1		t1		AA
						Screwed	Socket	Screwed	Socket	
15	1/2"	YGV 1/2"	100	180	100	R 1/2"	22	15.5	10	36
20	3/4"	YGV 3/4"	120	190	120	R 3/4"	27.5	16	13	41
25	1"	YGV 1"	135	220	140	R 1"	34.5	19	13	50
32	1 1/4"	YGV 1 1/4"	160	235	160	R 1 1/4"	43	21	13	65
40	1 1/2"	YGV 1 1/2"	185	255	180	R 1 1/2"	49	21	13	75
50	2"	YGV 2"	220	285	200	R 2"	61.5	26	16	90

* Use stainless steel stud and nut below -10°C

** In case of using PTFE(teflon) as sealing +150°C

***There is not a screw bushing for smaller than DN40 sizes for cast steel

Design and construction modification rights are reserandd.



Globe Valve

DN 65 - 200

Type: YGV Butt Welded

Fluid Media to be Used in;

In all kind of fluids such as steam, high temperature hot water, hot water, water, heated oil, LPG, fuel oil, pressurised air, etc. (In the line of food matter, sugar, syrup, potable water etc. teflon ring should be used until the 150°C as upper and lower ring)

Material Type	Cast Steel	St. Steel
Size	DN65-200	DN65-200
Pressure Class	PN40	PN40
Dimensions	DIN EN 12982	DIN EN 12982
Assembly	DIN EN 12627' according to fig.6	DIN EN 12627' according to fig.6
Temperature	-10°C * +400°C	-10°C * +400°C**
Material Code	VII	Xb
Order Code	YGV.7F.____.00	YGV.9F.____.00

P.No	Part Name	Cast Steel	St. Steel	St. Steel
1	Body	1.0619	1.4308	1.4408
2	Upper Bonnet	1.0619	1.4308	1.4408
3	Hand Wheel	GJL 200	GJL 200	GJL 200
4	Seat	1.4308	1.4308	1.4408
5	Plug	1.4308	1.4308	1.4408
6	Valve Spindle	1.4021	1.4301	1.4401
7	Gland Retainer	0.7040	1.4308	1.4308
8	Screw Bushing	Ms-58	1.4301	1.4401
9	Double Piece Nut	Ms-58	1.4301	1.4401
10	Washer	Ms-58	1.4301	1.4401
11	Plug Spindle	1.4104	1.4301	1.4401
12	Stuffing Ring	YX-GT	YX-GT/Teflon*	YX-GT/Teflon*
13	Stuffing Washer	St-42	1.4301	1.4401

P.No	Part Name	Cast Steel	St. Steel	St. Steel
14	Tube Split Pin***	55Si7	1.4301	1.4301
15	Seat Gasket	Graphite-Oilit	Graphite	Graphite
16	Pin	St-42	1.4301	1.4301
17	Hex Nut	8.8+Gal.	A2-70	A2-70
18	Label	Al	Al	Al
19	Nut	8.8+Gal.	A2-70	A2-70
20	Bonnet Gasket	Graphite	Graphite	Graphite
21	Stud	8.8+Gal.	A2-70	A2-70
22	Fork Bolt	St-42	1.4301	1.4401
23	Hex Nut	8.8+Gal.	A2-70	A2-70
24	Tube Split Pin	55Si7	A2-70	A2-70
25	Belleville Washer	50CrV4	50CrV4	50CrV4

DN			Dimensions		
mm	inch	Type	L	H	A
65	2 1/2"	YGV 65	290	305	250
80	3"	YGV 80	310	330	250
100	4"	YGV 100	350	375	280
125	5"	YGV 125	400	440	320
150	6"	YGV 150	480	480	360
200	8"	YGV 200	600	560	400

* Use stainless steel stud and nut below -10°C

** In case of using PTFE(teflon) as sealing +150°C

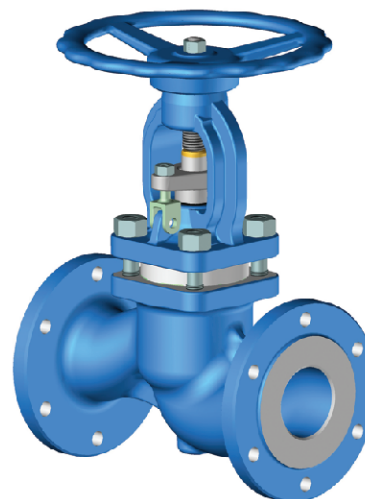
*** For DN100 and DN200 bolt and nut are A2-70

Design and construction modification rights are reserved.

Issues To Specify In Valve Orders

*It's vitally important that you should specify the belowed issues in detail in your orders and in requests to choose suitable valve.
Please contact us for unclear issues.*

- 1- Valve Type.....:
- 2- Quantity.....:
- 3- Dimensions.....:
- 4- Max. Operating Pressure.....:
- 5- Max. and Min. Operating Temperature.....:
- 6- Assembly Shape and Standard.....:
- (Flanged, Screwed, Socket or But Welded)
- 7- Fluid.....:
- Water, hot water, air, gas, steam, LPG, oil, hot oil, acid, base, etc.
(Concentration and other specifications)
- 8- Actuation.....:
- 9- Using Purpose.....:
- Fully open or fully closed, regulation element
- 10- Special requests:
- (Material, control etc.)



VALVE ORDER

You can use belowed encoding system in your orders.

YGV.2F.40.00 (DN40 Flanged Cast Iron Globe Valve)

Product Code	Material Code	Assembly Type	Dimensions	Norms
YGV	2	F	40	00
Globe Valve YGV	2 Cast Iron 8 Ductile Iron Cast 7 Cast Steel 9 Stainless Steel	F Flanged M Screwed S Socket A Butt Welded	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 - 81 DN 125 - 82 DN 150 - 83 DN 200 - 84	00 DIN 01 ASA 150 02 ASA 300

YAKACIK VALF Products

- **Piston Valves DN15 - DN50**
- **Balanced Piston Valves DN65 - DN200**
- **YX - GT Ring Sets DN15 - DN200**
- **Bellows Sealed Globe Valves DN15 - DN300**
- **Globe Valves DN15 - DN300**
- **Boiler Blowdown Valves DN32 - DN50**
- **Ball Valves DN15 - DN1000**
- **T Type Strainers DN15 - DN300**
- **Y Type Strainers DN15 - DN500**
- **Expansion Joints DN25 - DN2500**
- **Cryogenic Valves DN15 - DN50**
- **Manometer Cocks 1/2"**
- **Ball Valves (for natural gas) DN15 - DN300**
- **Ball Valves Monoball DN15 - DN100**
- **Check Valves DN15 - DN300**
- **Disco Check Valves DN25 - DN100**
- **Double Disc Check Valves DN40 - DN400**
- **Butterfly Valves DN32 - DN500**
- **Level Gauges YPBR - YUPR - YUPT**
- **Transparent Gauge Glass**
- **VYC Safety Valves DN 20X32 - DN 100X150**
- **Fire Hydrants DN80 - DN150**



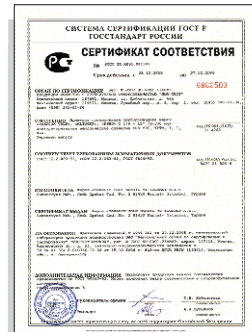
ISO 9001-2008
QUALITY MANAGEMENT SYSTEM



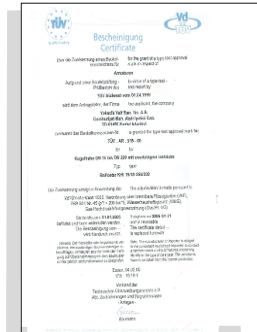
ADW-0 TRD 100
MANUFACTURING QUALIFIED
CERTIFICATE



CE 0036
PED 97/23 EC / III MODULE H



GOST
ALL PRODUCTS



TPD 99/36
TPD 99/36 EC TRANSPORTABLE
PRESSURE EQUIPMENT DIRECTIVE

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