# Globe Valves Type 03351 - Globe Valve, DIN EN Flanges

## Cryogenic-Globe and Globe/Check Valves, PN40

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

Part No. 03351.X.0002 Part No. 03351.X.5002 Globe/Check Valve Flanged connection acc. to DIN EN 1092-1 PN40

Available options - on request only:

- · Valve with control disc (tapered design)
- · Nominal sizes DN15, DN20 and DN150 with welding-neck flange



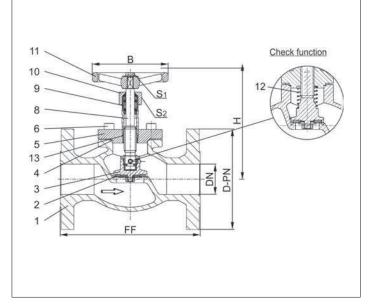


#### **Applications:**

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K) Recommended working temperature: -60°C / -76°F (213K) up to +120°C / +248°F (393K)

Ma	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal up to DN50	PTFE / Ca	arbon filled (25%)
2a	Valve seal from DN65	PTFE	
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bolts	1.4301/A2	A 194 B8
8	Stem	1.4301	A 276 Grade 304
9	Gland packing	Graphite /	PTFE
10	Gland nut	1.4305	A 276 Grade 303
11	Handwheel	Aluminium	n alloy
12	Spring	1.4310	A 313 Grade 301
13	Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03351 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange EN 1092-1 PN40	.X.	0250	0400	0500	0650	0800	1000
Flange-Ø	D-PN	115	150	165	185	200	235
Face-to-face dimension	FF	160	200	230	290	310	350
Height	Н	140	170	200	260	310	350
Handwheel-Ø	В	100	125	125	200	250	315
Wrench size across flats	S <sub>1</sub>	10	13	13	13	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36	36	36	41
Weight	ca. kg	4.5	9.1	12.9	20.6	27.6	42.0
Kvs-Value	m³/h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2

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# Globe Valves Type 03351 - Globe Valve, ANSI Flanges

## Cryogenic-Globe and Globe/Check Valves, class 300

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

#### Part No. 03351.X.0003 Part No. 03351.X.5003 Globe/Check Valve Flanged connection acc. to ANSI B16.5 class 300

Available options - on request only:

- · Valve with control disc (tapered design)
- · Nominal sizes DN15, DN20 and DN150 with welding-neck flange



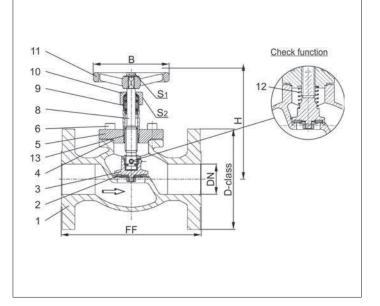


#### **Applications:**

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K) Recommended working temperature: -60°C / -76°F (213K) up to +120°C / +248°F (393K)

Ma	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal up to DN50	PTFE / Ca	arbon filled (25%)
2a	Valve seal from DN65	PTFE	
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bolts	1.4301/A2	A 194 B8
8	Stem	1.4301	A 276 Grade 304
9	Gland packing	Graphite /	PTFE
10	Gland nut	1.4305	A 276 Grade 303
11	Handwheel	Aluminium	n alloy
12	Spring	1.4310	A 313 Grade 301
13	Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03351 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange ANSI B16.5 class 300	.X.	1000	1400	2000	2400	3000	4000
Flange-Ø	D-class	123.9	155.4	165	190.5	209.5	254
Face-to-face dimension	FF	160	200	230	290	310	350
Height	Н	140	170	200	260	310	350
Handwheel-Ø	В	100	125	125	200	250	315
Wrench size across flats	S <sub>1</sub>	10	13	13	13	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36	36	36	41
Weight	ca. kg	4.5	9.1	12.9	20.6	27.6	42.0
Kvs-Value	m <sup>3</sup> /h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2

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# Globe Valves Type 03341 - Globe Valve, DIN EN Flanges

## Cryogenic-Globe and Globe/Check Valves, PN40

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

Part No. 03341.X.0012 (H = 270mm) Part No. 03341.X.0022 (H = 370mm) Part No. 03341.X.5012 (H = 270mm) Globe/Check Valve Part No. 03341.X.5022 (H = 370mm) Globe/Check Valve Flanged connection acc. to DIN EN 1092-1 PN40

Available options - on request only:

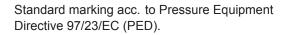
- · Extension H up to 900mm
- $\cdot$  Valve with control disc (tapered design)
- · Nominal sizes DN15, DN20 and DN150 with welding-neck flange

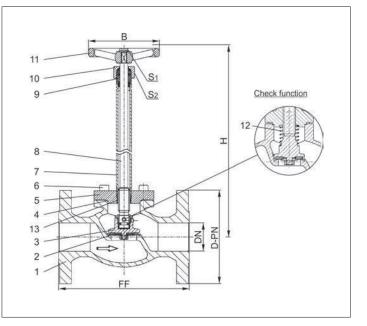


## Applications:

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Mat	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal up to DN50	PTFE / Ca	rbon filled (25%)
2a	Valve seal from DN65	PTFE	
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bolts	1.4301/A2	A 194 B8
7	Elongation tube	1.4541	A 213 TP 321
8	Stem	1.4301	A 276 Grade 304
9	Gland packing	Graphite /	PTFE
10	Gland nut	1.4305	A 276 Grade 303
11	Handwheel	Aluminium	alloy
12	Spring	1.4310	A 313 Grade 301
13	Bush	CW452K	B 159 UNS C51900





Type 03341 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange EN 1092-1 PN40	.X.	0250	0400	0500	0650	0800	1000
Flange-Ø	D-PN	115	150	165	185	200	235
Face-to-face dimension	FF	160	200	230	290	310	350
Height	Н	270 mm or	370 mm		400	400	400
Handwheel-Ø	В	100	125	125	200	250	315
Wrench size across flats	S <sub>1</sub>	10	13	13	13	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36	36	36	41
Weight	ca. kg	4.9	9.7	13.3	21.1	28.0	43.2
Kvs-Value	m³/h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2

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# Globe Valves Type 03341 - Globe Valve, ANSI Flanges

## Cryogenic-Globe and Globe/Check Valves, class 300

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

Part No. 03341.X.0013 (H = 270mm) Part No. 03341.X.0023 (H = 370mm) Part No. 03341.X.5013 (H = 270mm) Globe/Check Valve Part No. 03341.X.5023 (H = 370mm) Globe/Check Valve Flanged connection acc. to ANSI B16.5 class 300

Available options - on request only:

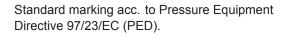
- · Extension H up to 900mm
- · Valve with control disc (tapered design)
- · Nominal sizes DN15, DN20 and DN150 with welding-neck flange

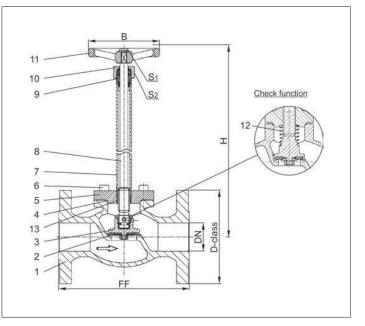


## Applications:

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)

Mat	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal up to DN50	PTFE / Ca	rbon filled (25%)
2a	Valve seal from DN65	PTFE	
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bolts	1.4301/A2	A 194 B8
7	Elongation tube	1.4541	A 213 TP 321
8	Stem	1.4301	A 276 Grade 304
9	Gland packing	Graphite /	PTFE
10	Gland nut	1.4305	A 276 Grade 303
11	Handwheel	Aluminium	alloy
12	Spring	1.4310	A 313 Grade 301
13	Bush	CW452K	B 159 UNS C51900





Type 03341 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange ANSI B16.5 class 300	.X.	1000	1400	2000	2400	3000	4000
Flange-Ø	D-class	123.9	155.4	165	190.5	209.5	254
Face-to-face dimension	FF	160	200	230	290	310	350
Height	Н	270 mm or	r 370 mm		400	400	400
Handwheel-Ø	В	100	125	125	200	250	315
Wrench size across flats	S <sub>1</sub>	10	13	13	13	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36	36	36	41
Weight	ca. kg	4.9	9.7	13.3	21.1	28.0	43.2
Kvs-Value	m³/h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2

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# Globe Valves Type 03252 - Bellow Sealed Globe Valve

## Cryogenic-Bellow Sealed Globe Valve, PN40

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

Part No. 03252.X.0022 Flanged connection acc. to DIN EN 1092-1 PN40

Available options - on request only:

- · Extension H up to 900mm
- · Valve with control disc (tapered design)
- $\cdot$  Nominal sizes DN15 and DN20 with welding-neck flange



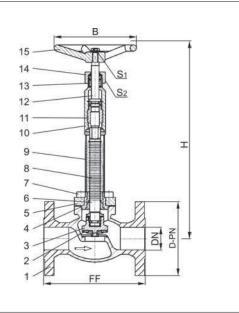


#### Applications:

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature:  $-196^{\circ}C / -321^{\circ}F (77K)$  up to  $+120^{\circ}C / +248^{\circ}F (393K)$  Leak rate::  $10^{-6}$  mbar ltr / sec outside,  $10^{-4}$  mbar ltr / sec seat

Ma	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal	PTFE / Ca	arbon filled (25%)
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bellow stem	1.4571	A 276 Grade 316Ti
7	Bolts	1.4301/A2	2 A 194 B8
8	Bellow	1.4571	A 276 Grade 316Ti
9	Elongation tube	1.4541	A 213 TP 321
10	Upper part	1.4301	A 276 Grade 304
11	Bush	CW452K	B 159 UNS C51900
12	Stem	1.4301	A 276 Grade 304
13	Gland packing	Graphite /	PTFE
14	Gland nut	1.4305	A 276 Grade 303
15	Handwheel	Aluminiun	n alloy

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03252 - Standard design	Technical	data		
Nominal size	DN	25	40	50
Dimension code - Flange EN 1092-1 PN40	.X.	0250	0400	0500
Flange-Ø	D-PN	115	150	165
Face-to-face dimension	FF	160	200	230
Height	Н	380	380	380
Handwheel-Ø	В	150	150	150
Wrench size across flats	S <sub>1</sub>	10	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36
Weight	ca. kg	5.2	10.1	13.8
Kvs-Value	m³/h	11.5	22.6	37.1
Cv-Value	gal/min	13.4	26.3	43.2

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# Globe Valves Type 03252 - Bellow Sealed Globe Valve

## Cryogenic-Bellow Sealed Globe Valve, class 300

Stainless steel body and topwork, "live loaded" gland packing "cleaned and degreased for oxygen service"

#### Part No. 03252.X.0023

Flanged connection acc. to ANSI B16.5 class 300

Available options - on request only:

- · Extension H up to 900mm
- · Valve with control disc (tapered design)
- · Nominal sizes DN15 and DN20 with welding-neck flange



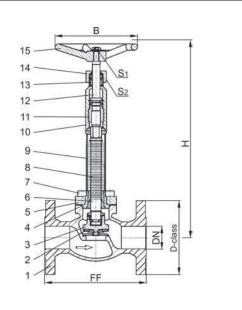


#### **Applications:**

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG. Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K) Leak rate:  $10^{-6}$  mbar ltr / sec outside,  $10^{-4}$  mbar ltr / sec seat

Ma	terials	DIN EN	ASTM
1	Body	1.4308	A 351 CF8
2	Valve seal	PTFE / Ca	arbon filled (25%)
3	Disc	1.4301	A 276 Grade 304
4	Bonnet gasket	PTFE	
5	Headpiece	1.4301	A 276 Grade 304
6	Bellow stem	1.4571	A 276 Grade 316Ti
7	Boltshrauben	1.4301/A2	2 A 194 B8
8	Bellow	1.4571	A 276 Grade 316Ti
9	Elongation tube	1.4541	A 213 TP 321
10	Upper part	1.4301	A 276 Grade 304
11	Bush	CW452K	B 159 UNS C51900
12	Stem	1.4301	A 276 Grade 304
13	Gland packing	Graphite /	PTFE
14	Gland nut	1.4305	A 276 Grade 303
15	Handwheel	Aluminium	n alloy

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03252 - Standard design	252 - Standard design Technical data			
Nominal size	DN	25	40	50
Dimension code - Flange ANSI B16.5 class 300	.X.	1000	1400	2000
Flange-Ø	D-class	123.9	155.4	165
Face-to-face dimension	FF	160	200	230
Height	Н	380	380	380
Handwheel-Ø	В	150	150	150
Wrench size across flats	S <sub>1</sub>	10	13	13
Wrench size across flats	S <sub>2</sub>	30	36	36
Weight	ca. kg	5.2	10.1	13.8
Kvs-Value	m³/h	11.5	22.6	37.1
Cv-Value	gal/min	13.4	26.3	43.2

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