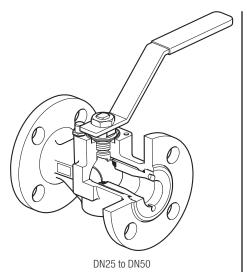
Issue Date: 12/22





DN 25 to DN 200 Flanged ASME 150 and ASME 300 M40Fi ISO

GBV Ball Valve with Reduced Bore Firesafe API 607

Description

The M40Fi is a reduced bore ball valve, with a single piece body, having ISO mounting as standard. It is designed to be an isolating valve, which can be used with the majority of industrial fluids, not a control valve.

Firesafe design

In normal working conditions, the ball rests against two PDR 0.8 seats ensuring total closure. When the valve is submitted to temperature above the limits the seats can withstand, the seat becomes deformed and renders to extrusion. When the seats have been totally destroyed, the ball will come to rest firmly against the metal seat in the cap, producing a metal-to-metal closing. This secondary seat in the valve cap ensures the valve will operate to international API 607 standard.

Available types

M40Fi3 ISO Stainless steel body, PDR 0.8 seats.

Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED) and carries the C 🗲 mark when so required.



Certification

This product is available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

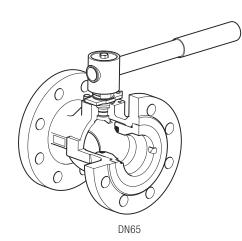
Sizes and pipe connections

DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN150 and DN200.

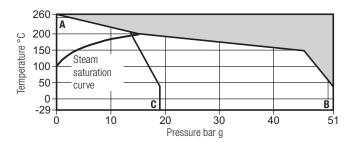
Standard flanges ASME 150 and ASME 300 with face-to-face dimensions according to ASME B16.10.

Technical data

Flow characteristic	Modified linear
Port	Reduced bore
Leakage test procedure to ISO 5208 (Rate A)/EN 12266-1 (Rate A)	
Antistatic device (optional) complies with ISO 7121 and BS 5351	



Pressure/temperature limits



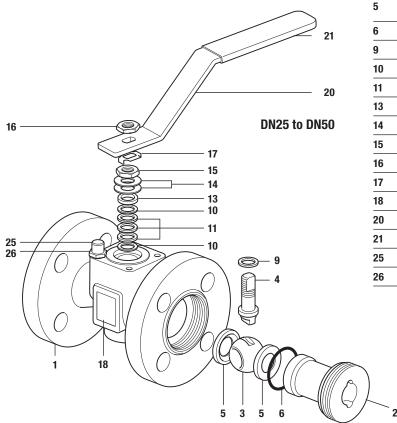
The product **must not** be used in this region.

A - B Flanged ASME 300

A - C Flanged ASME 150

Body de	esign conditions	A	ASME 150 and ASME 300			
DMA	Mayirayaa allayyahla maaayaa	ASME 150	19 bar g @ 38 °C			
PMA	Maximum allowable pressure	ASME 300	51 bar g @ 38 °C			
TMA	MA Maximum allowable temperature 260 °C					
Minimu	m allowable temperature		-29 °C			
DMO	Maximum analytics are active for active to distance and in	ASME 150	13.8 bar g			
PM0	Maximum operating pressure for saturated steam service	ASME 300	17.5 bar g			
TMO	Maximum operating temperature	260 °C @ 0				
Minimu	m operating temperature		-29 °C			
Note: F	or lower operating temperatures consult GESTRA					
ΔPMX	Maximum differential pressure is limited to the PMO					
Doolan	od for a maximum cold hydraulia taat proceura of	ASME 150	28.5 bar g			
Designe	ed for a maximum cold hydraulic test pressure of:	ASME 300	76.5 bar g			

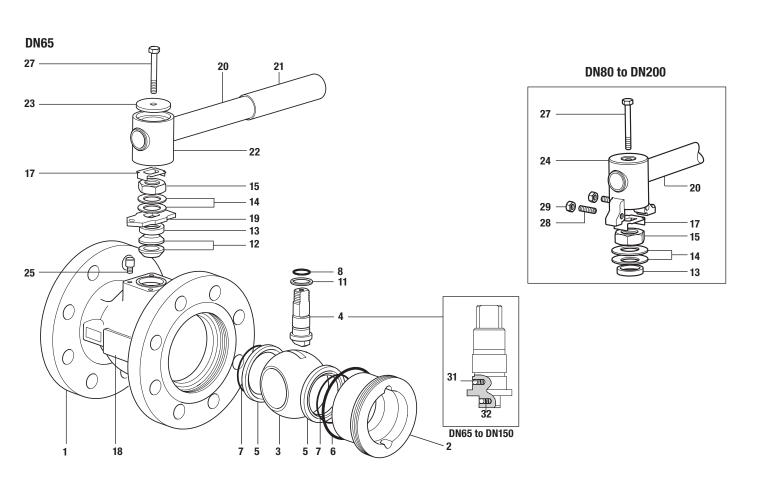
Materials



No.	Part		Material	
1	Body	M40Fi3 ISO	Stainless steel	ASTM A351 CF8M
2	Insert	M40Fi3 ISO	Stainless steel	AISI 316
3	Ball		Stainless steel	AISI 316
4	Stem		Stainless steel	AISI 316
5	Seat		Carbon and graphite reinforced PTFE	PDR 0.8
6	Insert g	asket	Graphite	
9	Stem se	eal	Antistatic R-PTFE	
10	Stem se	eal	Stainless steel	AISI 304
11	Stem se	eal	Graphite	
13	Separat	tor	Zinc plated carbon steel	SAE 1010
14	Bellevill	e washer	Stainless steel	AISI 301
15	Gland n	ıut	Zinc plated carbon steel	SAE 1010/SAE 12L14
16	Upper s	stem nut	Zinc plated carbon steel	SAE 1010/SAE 12L14
17	Locking	plate	Stainless steel	AISI 304
18	Namepl	late	Stainless steel	AISI 430
20	Lever		Zinc plated carbon steel	SAE 1010
21	Grip		Vinyl	Red
25	Stop sc	rew	Zinc plated carbon steel	SAE 12L14
26	Split loc	ck washer	Stainless steel	AISI 304

Materials

No.	Part		Material	
1	Body	M40Fi3 ISO	Stainless steel	ASTM A351 CF8M
2	Insert	M40Fi3 ISO	Stainless steel	AISI 316
3	Ball		Stainless steel	AISI 316
4	Stem		Stainless steel	AISI 316/AISI 420
5	Seat		Carbon and graphite reinforce	d PTFE PDR 0.8
6	Insert gasket		Graphite	
7	Seat '0' ring		Viton	
8	Stem '0' ring		Viton	
11	Lower stem seal		Antistatic R-PTFE	
12	Upper stem packing		Graphite	
13	Separator		Zinc plated carbon steel	SAE 1010
14	Belleville washer		Carbon steel/Stainless steel	
15	Gland nut		Zinc plated carbon steel	SAE 1010/SAE 12L14
17	Locking plate		Stainless steel	AISI 304
18	Nameplate		Stainless steel	AISI 430
19	Stop plate with indicator	DN65 only	Zinc plated carbon steel	SAE 1010
20	Lever		Zinc plated carbon steel	SAE 1010
21	Grip		Vinyl	Red
22	Adaptor	DN65 only	Zinc plated SG iron	
23	Adaptor plate	DN65 only	Zinc plated carbon steel	SAE 1010
24	Adaptor with indicator	DN80 to DN200	Zinc plated SG iron	
25	Stop screw		Zinc plated carbon steel	SAE 12L14
27	Adaptor screw		Zinc plated carbon steel	Grade 5
28	Stop screw	DN80 to DN200	Carbon steel	
29	Adaptor hex. nut	DN80 to DN200	Zinc plated carbon steel	
31	Antistatic device ball		Stainless steel	AISI 302
32	Antistatic device spring		Stainless steel	AISI 301



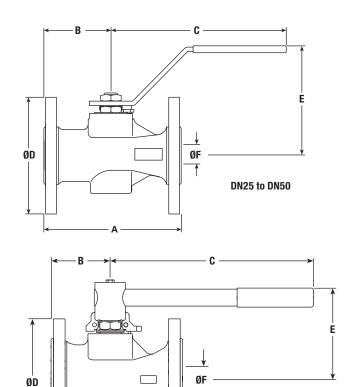
Dimensions/weights (approximate) in mm and kg

Flanged ASME 150

_							
Size	Α	В	С	D	E	F	Weight
DN25	127	62	162	108	101	19	2.9
DN32	140	65	182	118	106	25	3.8
DN40	165	70	186	127	118	30	5.4
DN50	178	75	186	152	123	37	7.9
DN65	190	79	278	178	144	50	12.0
DN80	203	91	417	191	157	57	15.8
DN100	229	98	517	229	172	75	24.8
DN150	267	130	700	279	205	100	43.8
DN200	292	146	850	343	286	200	82.5

Flanged ASME 300

Size	Α	В	С	D	E	F	Weight
DN25	165	62	162	124	101	19	4.5
DN32	178	65	182	134	106	25	5.7
DN40	190	70	186	156	118	30	8.2
DN50	216	75	186	165	123	37	10.3
DN65	241	79	278	190	144	50	16.0
DN80	283	91	417	210	157	57	22.3
DN100	305	98	517	254	172	75	36.1
DN150	403	130	700	318	205	100	66.6
DN200	419	146	850	381	286	200	117.5



DN65 to DN200

K_v values

DN	25	32	40	50	65	80	100	150	200
Κ _ν	30	40	81	103	197	248	581	735	1600

For conversion:

 $C_{v}(UK) = K_{v} \times 0.963$

 $C_{v}(US) = K_{v} \times 1.156$

Operating torques (Nm)

DN	25	32	40	50	65	80	100	150	200
N m	10	15	20	25	50	70	100	155	720

Note: The torque figures shown are for a valve that is frequently operated at the maximum operating pressure. Valves that are subject to long static periods, may require a greater break-out torque.

Safety information, installation and maintenance

For full details see the Original Installation Instructions supplied with the product.

Welding

Only the models that have connections designed for welding (SW, BW, Imperial Tube connections) should be welded. Valves with flanged connections must not be welded to avoid damages to the valve and/or injury to personnel.

How to order

Specify	Model	Seat material F =	Carbon and graphite reinforced PTFE - PDR 0.8
эреспу	Material	Body material 3 =	Stainless steel

Example: 1 off GESTRA DN50 M40Fi3 ISO ball valve having flanged ASME 150 connections.

Optional extras:

- Self-venting ball.
- Extended stems to allow full insulation: 50 mm (2") for DN15 to DN50 sizes and 100 mm (4") for DN25 to DN200 sizes.
- Lockable handle.
- 100 mm extended stem with lockable handle.

DN25 to DN50 - Spare partsThe spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

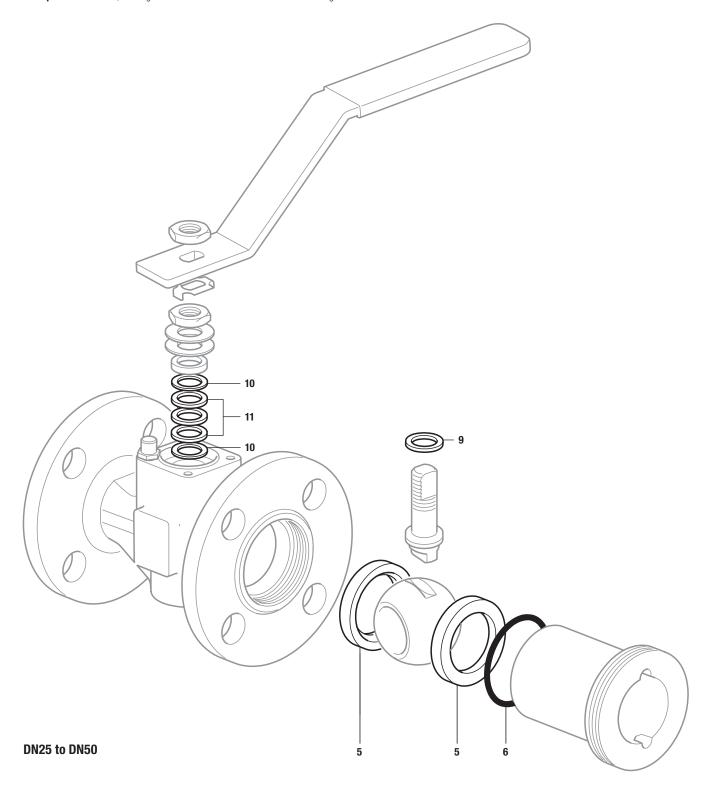
Available spares

Seats, insert gasket and stem seals

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of ball valve.

Example: 1 set of seats, insert gasket and stem seals for a GESTRA DN50 flanged ASME 150 M40Fi3 ball valve.



5, 6, 9, 10, 11

DN65 to DN200 - Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

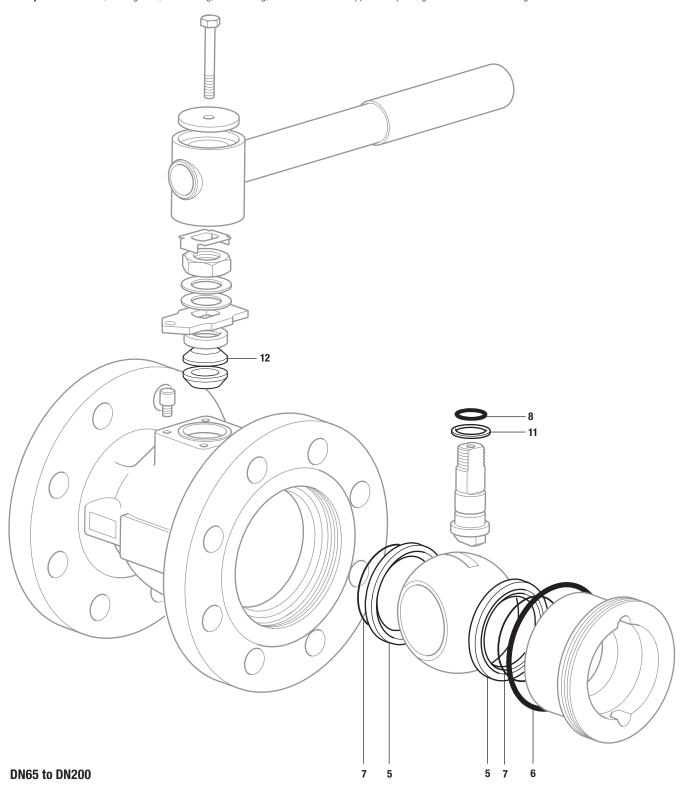
Available spares

Seats, insert gasket, seat '0' ring, stem '0' ring, lower stem seal and upper stem packing 5, 6, 7, 8, 11, 12

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of ball valve.

Example: 1 set of seats, insert gasket, seat '0' ring, stem '0' ring, lower stem seal and upper stem packing for a GESTRA DN80 flanged ASME 150 M40Fi3 ball valve.



GESTRA AG

Münchener Straße 77, 28215 Bremen, Germany Telefon +49 421 3503-0, Telefax +49 421 3503-393 E-mail info@de.gestra.com, Web www.gestra.com

