Technical Datasheet

DIN Ball Valves

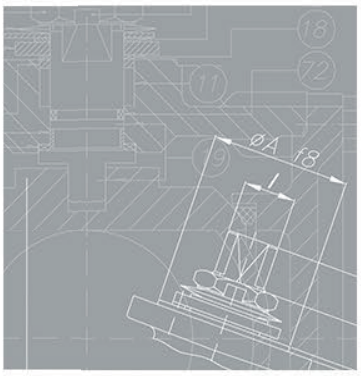
Seal+

316Q
340Q

JC VALVES

The quality option





Sales Partner

fergo®
Wir regeln das.

Sales Partner:
FERGO Armaturen GmbH
Blindeisenweg 31
41468 Neuss

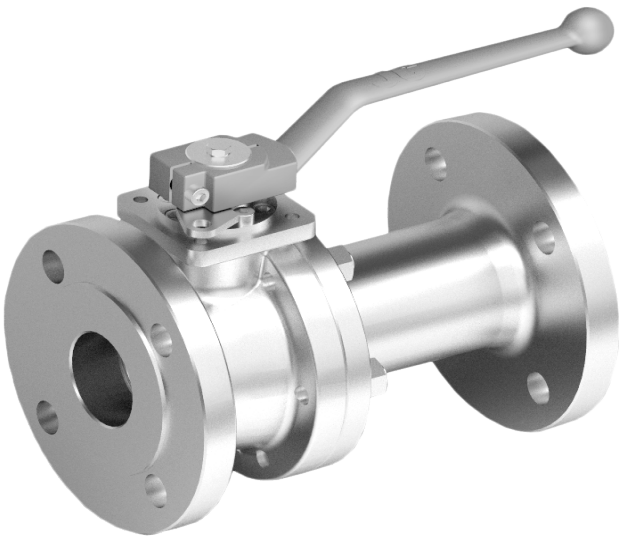
• Tel. : +49 (0) 21 31/15 39 28-0
• Fax: +49 (0) 21 31/15 39 28-99

• www.fergo.eu
• info@fergo.eu
• www.fergo.shop

Fig. 316Q/340Q

General Characteristics

DIN Ball Valves
Floating



CE 2014/68/EU

SIL IEC 61508

Ex II 2 G D

FUGITIVE EMISSIONS
EN-ISO 15848-1
TALUFT / VDI 2440

EAC

π 2010/35/UE

- Valve design: Full Bore EN 14432 / EN ISO 17292
- Body design: EN 12516
- Shell thickness: EN 12516
- Flanges: DIN 2501 / EN 1092-1
- Face to face dimensions: EN 558 Series 1
- Marking: EN 19 / CE - PED / MSS SP-25 / EN 14432
- Pressure testing: EN 12266 / EN 14432
- Shell finishing quality: MSS SP-55
- ISO 5211
- PAS 1085
- Lockable

Certifications

Company Certifications

- ISO9001 Quality Management System
- ISO14001 Environmental Management System
- AD2000-Merkblatt W0/A4

Product Certificates

- Fire Safe ISO 10497
- Fugitive Emissions TA-Luft / ISO 15848-1
- PED 2014/68/EU - CE marking
- ATEX 2014/34/EU– (II2GD)
- Russian Federation Certificate TRCU 10, TRCU 12, TRCU 32
- Food processing and pharmaceutical industry FDA, USP CLASS VI COMPLIANCE (CE 1935/2004) - *Optional*
- Safety Integrity Level (SIL) LEVEL 3 IEC 61508
- German type test certificate AR 216-21
- TPED 2010/35/UE - π marking
- Tanks for the transport of dangerous goods-Tank equipment for the transport of liquid chemicals and liquefied gases - Product discharge and air inlet valves EN 14432

Sales Partner:
FERGO Armaturen GmbH
Blindeisenweg 31
41468 Neuss

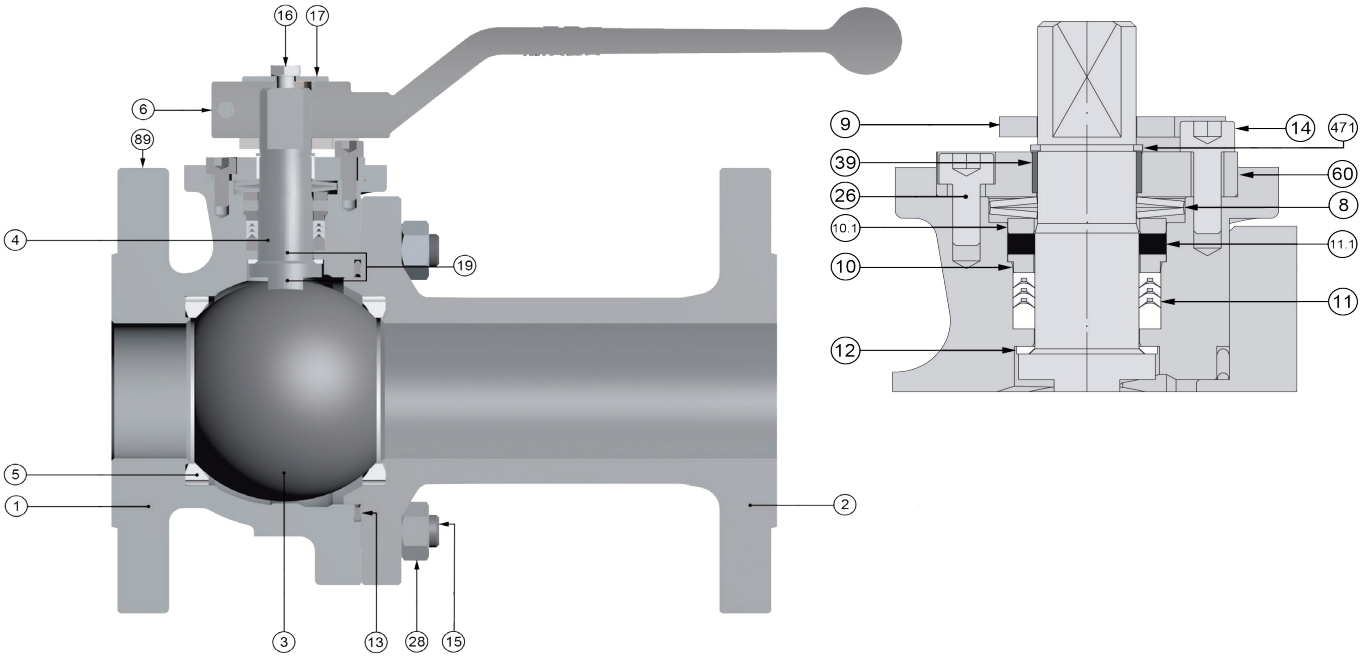
• Tel. : +49 (0) 21 31/15 39 28-0
• Fax: +49 (0) 21 31/15 39 28-99

• www.fergo.eu
• info@fergo.eu
• www.fergo.shop

Fig. 316Q/340Q

Parts and Materials

DIN Ball Valves
Floating



Other materials upon request

Item	Description	Material	
		A.I.F	I.I.F
1 / 2	Body / Body Connector	1.0619	1.4408
3	Ball	1.4408 / ASTM A351 Gr. CF8M (DN 15 to 50 A182 Gr. F316)	
4	Stem	1.4462	
5	Seat ring	TFM	
6	Wrench	ASTM A351 Gr. CF8M	
8	Disk spring	Inconel 750	
9	Stop plate	1.4462	
10	Gland	ASTM A479 Tp.316	
10.1	Gland	ASTM A479 Tp.316	
11	Gland packing	TFM-1600	
11.1	Gland packing	Graphite	
12	Stem thrust seal	TFM-1600	
13	Body connector seal	SPW ASTM A276 Tp.316L + PTFE + Graphite	
14	Stop bolt	DIN 912 A4-70	
15	Bolt	DIN 933 8.8 Zinc Bichromated	DIN 933 A4-70
16	Bolt	DIN 933 A4-70	
17	Washer	ASTM A276 Tp.316	
19	Antistatic device	Stainless St	
26	Bolt	DIN 912 A4-70	
39	Stem bushing (DN 25 to DN 200)	ASTM A276 Tp.316 with PTFE	
60	Upper Flange	ASTM A276 Tp.316	
89	Identification Plate	ASTM A276 Tp.316	
471	Retainer	ASTM A276 Tp.420	

Sales Partner:
FERGO Armaturen GmbH
Blindeisenweg 31
41468 Neuss

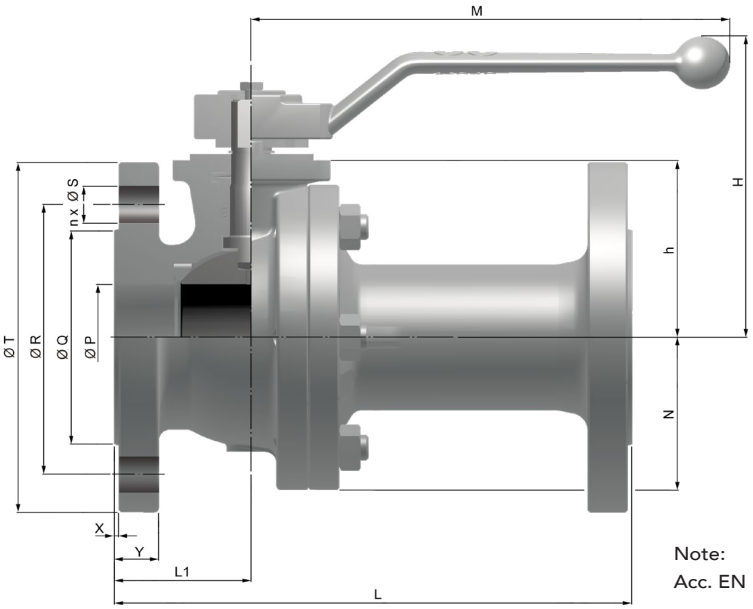
• Tel. : +49 (0) 21 31/15 39 28-0
• Fax: +49 (0) 21 31/15 39 28-99

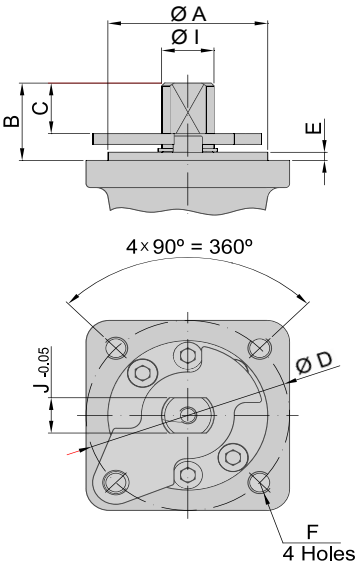
• www.fergo.eu
• info@fergo.eu
• www.fergo.shop

Fig. 316Q/340Q

Dimensions

DIN Ball Valves
Floating





Note:
Acc. EN 1092-1

* Weight in Kg * Dimensions in mm

Series 316Q (PN 16)

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	N	WEIGHT	Kv
65	65	290	75,5	122	145	8x18	185	3	18	97	153	348	---	18,3	550
80	80	310	82	138	160	8x18	200	3	20	111	191	445	---	24	1000
100	100	350	90,5	158	180	8x18	220	3	20	133	213	495	118	36	1650
125	125	400	120	188	210	8x18	250	3	22	156	244	698	138	58	3000
150	151	480	135	212	240	8x22	285	3	22	183	278	698	160	81	4200
200	203	600	200	268	295	12x22	340	3	24	233	332	868	208	---	---

Series 340Q (PN 40)

DN	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	N	WEIGHT	Kv
15	15	130	53	45	65	4x14	95	2	16	46	112	164	---	3	20
20	20	150	52	58	75	4x14	105	2	18	53	119	164	---	3,8	40
25	25	160	48,5	68	85	4x14	115	2	18	58	124	164	---	5,2	75
32	32	180	54	78	100	4x18	140	2	18	66,5	133	164	---	7,6	130
40	40	200	55	88	110	4x18	150	3	18	76	134	213	---	9,6	170
50	50	230	61	102	125	4x18	165	3	20	83,5	142	213	---	12,9	270
65	65	290	75,5	122	145	8x18	185	3	22	97	153	348	---	18,5	550
80	80	310	74,5	138	160	8x18	200	3	24	111	191	445	---	25	1000
100	100	350	91	162	190	8x22	235	3	24	133	213	495	118	39	1650
125	125	400	120	188	220	8x26	270	3	26	156	244	698	138	63	3000
150	151	480	135	218	250	8x26	300	3	28	183	278	698	160	87	4200

Actuator Connection

DN	ISO 5211	ØA	B	C	ØD	n x F	E	ØI	J
15	F05	35	16,4	8,5	50	4x M6	3	10,5	9
20	F05	35	17,4	9,5	50	4x M6	3	11	9
25	F05	35	18,9	11	50	4x M6	3	11	9
32	F05	35	18,9	11	50	4x M6	3	11	9
40	F07	55	28,5	18,6	70	4x M8	3	18	13
50	F07	55	28,5	18,6	70	4x M8	3	18	13
65	F07	55	28,5	18,6	70	4x M8	3	20	16
80	F10	70	28,5	18,6	102	4x M10	3	24	18
100	F10	70	37,5	27,6	102	4x M10	3	24	20
125	F12	85	35	24,8	125	4x M12	3	33	25
150	F12	85	47,5	37	125	4x M12	3	38	29
200	F14	100	52	38	140	4x M16	4	42	32

Fig. 316Q/340Q

Torque Values in Nm

DIN Ball Valves
Floating

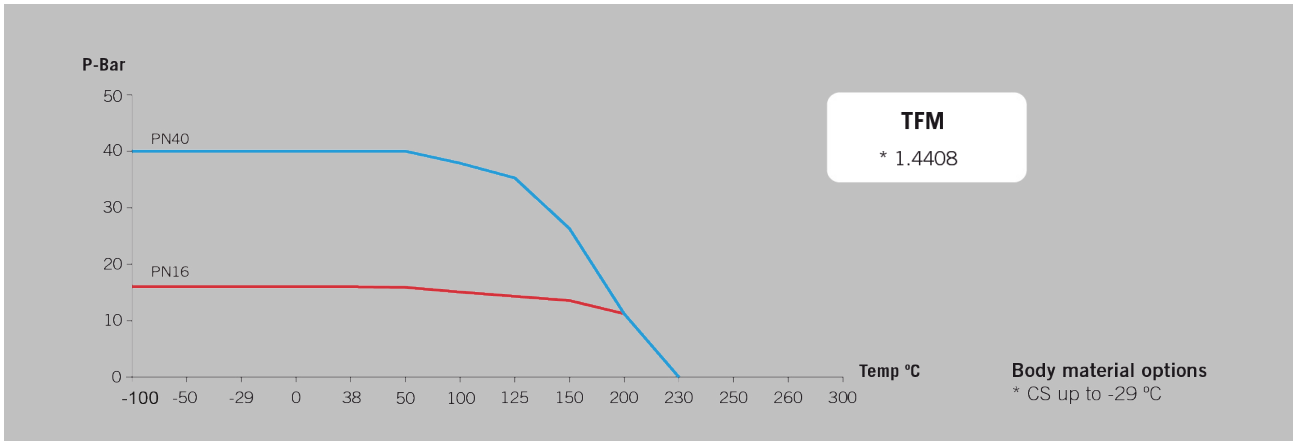
Differential Pressure 16 bar

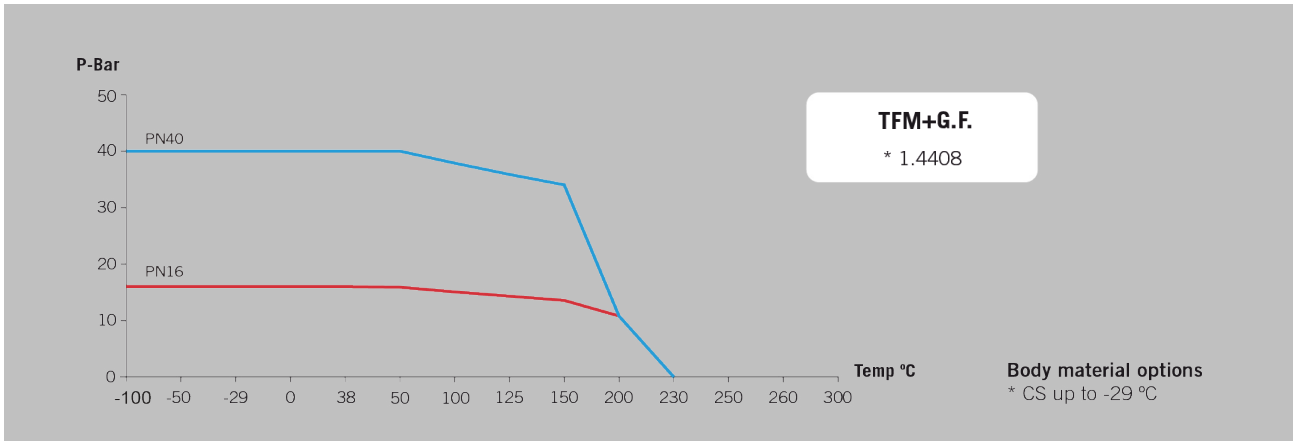
DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
15	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-
65	61	31	37	46	31	49	331
80	97	49	58	73	49	78	504
100	133	67	80	100	67	106	603
125	226	113	136	170	113	181	1395
150	320	160	192	240	160	256	2221
200	694	347	416	521	347	555	3034

Differential Pressure 40 bar

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
15	11	6	7	8	6	9	50
20	14	7	8	11	7	11	54
25	20	10	12	15	10	16	54
32	25	13	15	19	13	20	54
40	33	17	20	25	17	26	213
50	46	23	28	35	23	37	213
65	66	33	40	50	33	53	331
80	116	58	70	87	58	93	504
100	171	86	103	128	86	137	603
125	283	142	170	212	142	226	1395
150	463	232	278	347	232	370	2221
-	-	-	-	-	-	-	-

Pressure – Temperature Charts





Sales Partner:
FERGO Armaturen GmbH
Blindeisenweg 31
41468 Neuss

• Tel. : +49 (0) 21 31/15 39 28-0
• Fax: +49 (0) 21 31/15 39 28-99

• www.fergo.eu
• info@fergo.eu
• www.fergo.shop

Fig. 316Q/340Q

Special Accessories

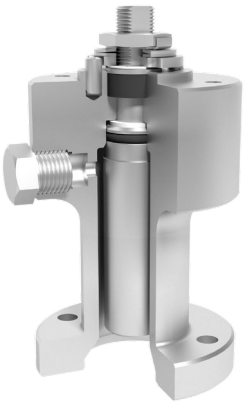
DIN Ball Valves
Floating



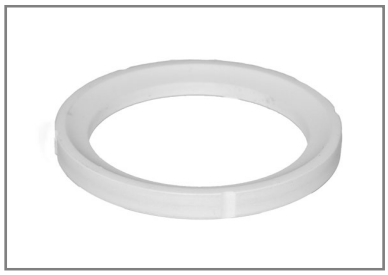
Simple Stem Extension



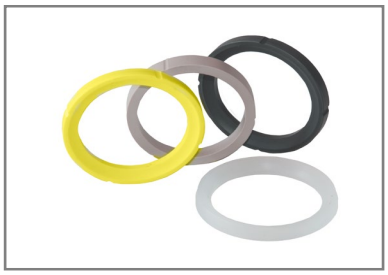
Standard Stem Extension



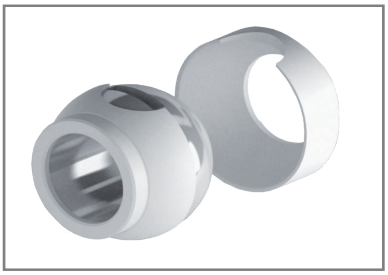
Double Packing Stem Extension



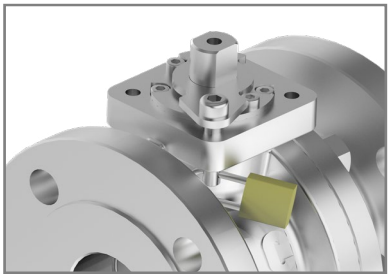
Cavity Relief Seat



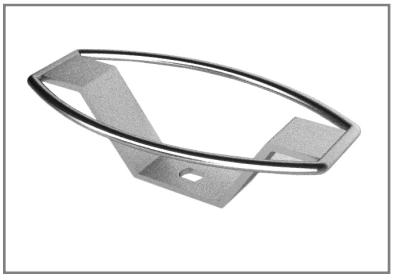
Other Seat materials



Cavity Filler Seat



Padlock



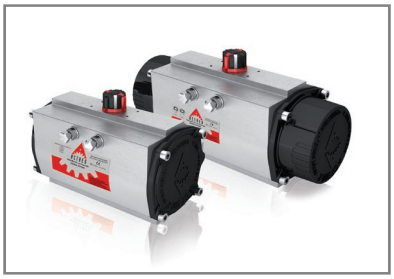
Oval Handwheel
Available from 1/2” to 2”



Degreased FDA



Manual and Declutchable Gears



Valve Automation option available on Request

Other Features:
- Metal Seated
- No Fire Safe