

# ECON<sup>®</sup> Ball valve Type: 7642 Stainless steel Butt weld NEN EN10357 serie A Class 600



## **Characteristics**

**Type:** 7642 Norm: ASME Construction type: 2-way Housing construction: 3-part Housing material: Stainless steel Material quality: ASTM A351 CF8M Connection: Butt weld Standard welding connection: NEN EN10357 serie A Top flange standard: ISO 5211 Direct Mount With locking device: Yes Material ball: ASTM A351 CF8M Seat material: TF 4103 Spindle material: ASTM A276 316 Grade S Primary spindle seal material: RPTFE Secondary spindle seal material: FPM (FKM) Tertiary spindle seal material: RPTFE Body seal: RPTFE Material connection piece: ASTM A351 CF3M Actuator material: ASTM A351 CF8 Minimum medium temperature (continuous): -40 °C Maximum medium temperature (continuous): 220 °C Options

#### **Application**

- Industrial and maritime applications.
- Liquid and gaseous media.
- Recommended in: Food & Beverages, Pharma

### **Technical Information**

- Connection according to EN 10357 serie A (DIN 11850, row 2].
- Floating ball.
- Pressure class: Class 600 up to and including 2.1/2". Class 300 for 3" and 4".
- With direct-mount top flange according to ISO 5211.
- Closed neck design with leak detection opening.
- All components intended to come into contact with food comply with EC 1935.
- The chevron seal set used as a spindle seal and the axial seal ensure a longer service life and lower torque.
- Equipped with a robust, lockable lever.
- Average temperature for a tap with standard TF 4103 seats: -40°C/+220°C. Up to a maximum of 280°

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C for taps with PEEK seats.

#### Construction

- Three-part housing construction.
- Relevant design standards: EN-ISO 17292, ISO 5211 and API 608.
- Full bore.
- Design with antistatic equipment between ball and housing.

### **Approval**

- Fugitive emission certified according to the German Technical Instructions on Air Quality Control (TA-Luft), VDI 2440, point 3.3.1.3.
- Fugitive emission certified according to ISO 15848-1, CO1 Class AH and CO3 Class BH.
- Safety integrity level (SIL) 2.
- Declaration of conformity according to EC 1935/2004.

- Design with worm gearbox, pneumatic, electric or hydraulic drives.
- Position feedback for manual and automatic valves.
- Available with different seat materials such as TF
- 4215. TFM 1600 and PEEK. Fire-safe design available.
- Stainless steel extended spindle for insulation or for cold applications (up to -50°C).
- With connection for earthing.
- Reduced bore.
- With 30°, 60° or 90° V-shaped ball bore for modulating applications.
- Connections with BSPP thread according to ISO 228-1, NPT thread according to ASME B1.20.1, socket weld according to ASME B16.11 or EN 12760, and butt weld according to ASME B16.25 S40 or EN 12627-1 (1/4" - 3/4") and EN 12627-2 (1" - 4") or SMS 3008 (EN 10357 Series D) or DIN 11850 Row 1 (EN 10357 Series B) or ISO 1127-S1.

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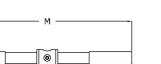
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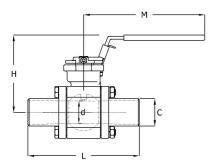
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## Ball Valves | Ball valves with welding connection







DN	Full bore	d	L	Н	М	С	Weight
		mm	mm	mm	mm	mm	kg
DN10	Yes	15	71	83	140	13	0.9
DN15	Yes	15	72	83	140	19	1
DN20	Yes	20	97	83	140	23	1.5
DN25	Yes	25	109	97	165	29	2
DN32	Yes	31.8	118	103	165	35	3
DN40	Yes	38	129	130	202	41	4.5
DN50	Yes	50	145	139	202	53	6.5
DN65	Yes	65	185	178	257	70	12.5

			F	Pressure and ter	nperature range	e			
Seat material + DN full bore	-40	50	100	150	175	200	250	300	[°C]
TF4103 & TFM1600 DN10 - DN25	99.3	96.2	72	48	25	0	-	-	[bar]
TF4215 DN10 - DN25	99.3	96.2	84.4	65	45	23	0	-	[bar]
PEEK DN10 - DN25	99.3	96.2	84.4	77	58	37	13	0	[bar]
TF4103 & TFM1600 DN32 - DN40	80	80	60	40	20	0	-	-	[bar]
TF4215 DN32 - DN40	80	80	80	61	42	21	0	-	[bar]
PEEK DN32 - DN40	80	80	80	77	57	36	13	0	[bar]
TF4103 & TFM1600 DN50	76	76	56	38	20	0	-	-	[bar]
TF4215 DN50	76	76	76	58	39	20	0	-	[bar]
PEEK DN50	76	76	76	76	56	35	12	0	[bar]
TF4103 & TFM1600 DN65	69	69	52	35	18	0	-	-	[bar]
TF4215 DN65	69	69	69	53	37	19	0	-	[bar]
PEEK DN65	69	69	69	69	50	31	10	0	[bar]

Size table:

minal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	Maximum operating pressure	Article
	mm	mm							bar	
DN10	13	1.5	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	99	14011235
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Nominal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	Maximum operating pressure	Article
	mm	mm							bar	
DN15	19	1.5	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	99	14011236
DN20	23	1.5	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	99	14011237
DN25	29	1.5	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	99	14011238
DN32	35	1.5	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	80	14011239
DN40	41	1.5	Class 600	Manufacturer standard	Handle	F07		Full bore	80	14011240
DN50	53	1.5	Class 600	Manufacturer standard	Handle	F07		Full bore	76	14011241
DN65	70	2	Class 600	Manufacturer standard	Handle	F07	F10	Full bore	69	14011242

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