

Compact flange ball valve, article 437-VA with lever

Diameter DN 15 up to DN 150

Compact flange-ball valve in economical construction, for general, simple industrial use. Design as 1-part housing with screw-in part. Pressure class depends on nominal diameter up to PN 40. Full bore, floating ball, both sides 100% tight closing. Shaft seal consisting of multilayer PTFE V-rings, preloaded and self-adjusting by belleville washers and additional FKM O-ring.

Suitable for gaseous and liquid media (no steam) considering material resistance stainless steel 1.4408.

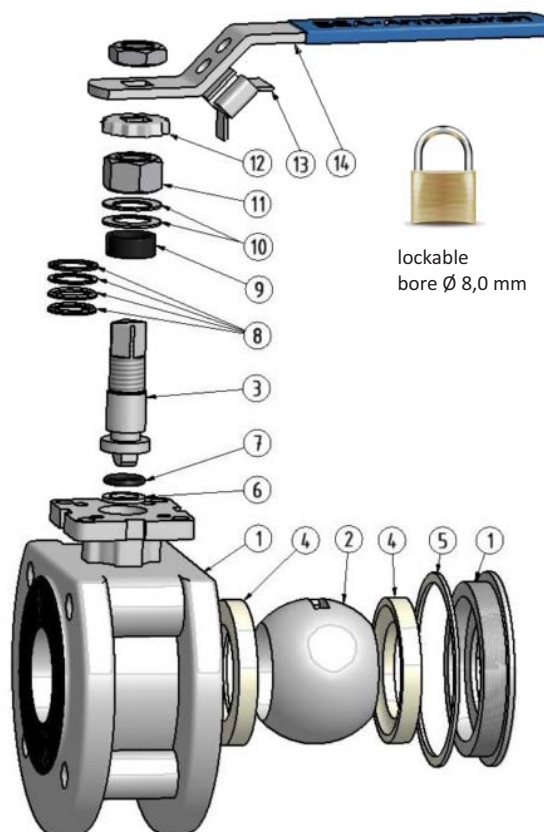
- **both sides flange connection according to DIN EN 1092-1, pressure range PN 16/PN 40, from diameter DN 65 PN 16**
- **flange with threaded hole according to DIN standard (metric)**
- **ball above with pressure compensation bore**
- **ISO 5211 mounting flange for actuators (direct mounting)**

Operation optionally with lever (lockable), pneumatic or electrical actuator. Unit (ball valve / actuator) is mounted ready for connection including functional test.



	TÜV TA-Luft certified
	Antistatic design 2014/34/EU (Ex II 2 G/D Ex-c II)
	0035
	ambient -20° C ... +60° C
	medium -34° C ... +200° C

Pos.	description	material
1	body / screw-in part	stainless steel 1.4408
2	ball	stainless steel 1.4408
3	stem	stainless steel 1.4401
4	ball seal	PTFE-profile shells (TFM 1600)
5	body seal	PTFE
6	stem seal	PTFE
7	O-ring	FKM (Viton)
8	chevron packing set	PTFE
9	thrust ring	stainless steel 1.4401
10	belleville washers	stainless steel 1.4310
11	stem nut	V2A
12	safety cap	V2A
13	locking device	stainless steel 1.4310
14	lever	stainless steel 1.4310



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- Design Standard DIN EN 12516-1
- Housing strength DIN EN 12516-2
- Design pressure PN 68 / PN 63 / PN 50 (depending on nominal diameter)
- Identification EN 19, MSS SP-25
- Inspection / test DIN EN 12266 P10 / P11 / P12
- Housing cast AD 2000-data sheet W0 (TÜV)

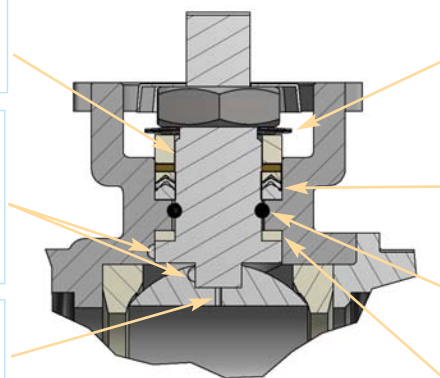


shaft sealing according to VDI 2440 (TA-Luft)

Operating stem is inserted into the body shaft from inside. This guarantees blow-out safety stem.

ATEX-antistatic, the ball-stem connection and the stem-body connection have an anti static feature, which ensures electrical continuity contact between those parts. As a result the ball valve complies with the ATEX Directive 2014/34/EU (Ex II 2 G/D Ex-c II)

The highly polished solid ball has a **pressure relief hole** in the stem slot in order to avoid pressure build-up in the body cavity. This ensures a right shutoff and a long service life



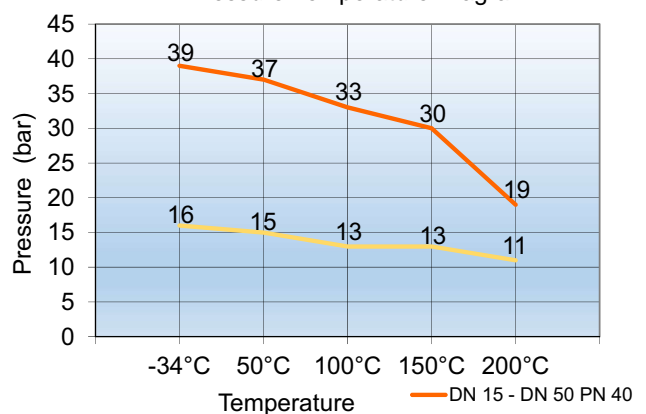
Disc springs ensure the permanent pretensioning of the chevron ring set.

primary shaft seal 3-ply V-ring chevron packing set (PTFE)

secondary shaft seal (O-ring FPM)

tertiary shaft feedthrough (PTFE sealing washer)

Pressure-Temperature-Diagram



Operating-variants

pneumatic

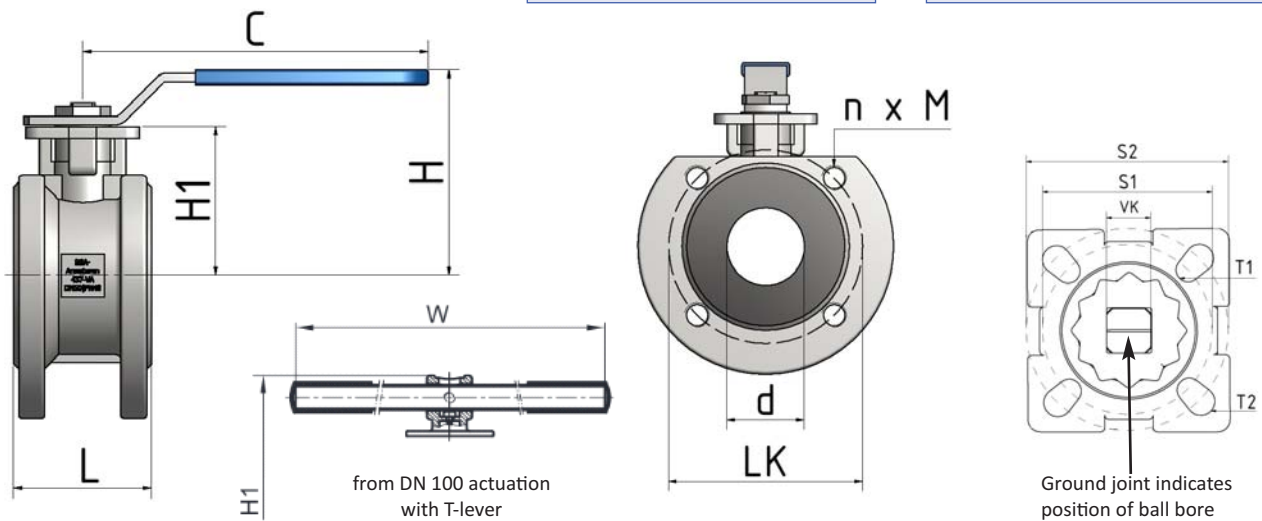
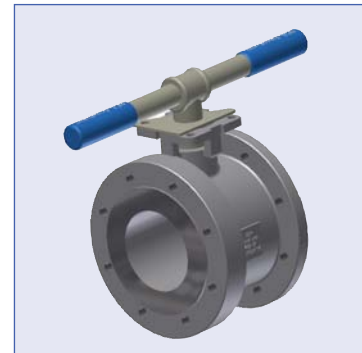
electrical

electrical



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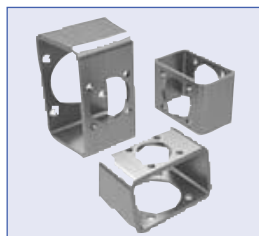
Article-No.														
Diameter	437-VA Stainless steel 1.4408	L (mm)	H (mm)	H1 (mm)	d (mm)	C / W (mm)	LK (mm)	n x M	S1/S2	VK (mm)	T1 (mm)	T2 (mm)	Pressure rating max (bar)	Weight (kg)
DN 15	215.3868.6.11	42	77	49	15,0	145	65	4 x M12	F03/F04	9	4x6	4x6	40	1,4
DN 20	215.3868.6.13	44	82	55	20,0	145	75	4 x M12	F03/F04	9	4x6	4x6	40	1,8
DN 25	215.3868.6.15	50	94	62	25,0	175	85	4 x M12	F04/F05	11	4x6	4x7	40	2,4
DN 32	215.3868.6.18	60	104	72	32,0	175	100	4 x M16	F04/F05	11	4x6	4x7	40	3,9
DN 40	215.3868.6.19	65	114	78	38,0	194	110	4 x M16	F05/F07	14	4x7	4x9	40	4,9
DN 50	215.3868.6.21	80	120	86	50,0	194	125	4 x M16	F05/F07	14	4x7	4x9	40	8,6
DN 65	215.3868.6.24	110	158	108	63,5	265	145	4 x M16	F07/F10	17	4x9	4x11	16	10,1
DN 80	215.3868.6.25	120	165	116	76,0	265	160	8 x M16	F07/F10	17	4x9	4x11	16	14,5
DN 100	215.3868.6.27	150	182	139	95,0	400	180	8 x M16	F10	22	-	4x11	16	22,7
DN 125	215.3868.6.28	180	224	176	118,0	600	210	8 x M16	F12	27	-	4x14	16	50,0
DN 150	215.3868.6.29	225	268	192	142,0	800	240	8 x M20	F12	27	-	4x14	16	70,0

Diameter	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150
Ø	15,0	20,0	25,0	32,0	38,0	50,0	63,5	76,0	95,0	118,0	142,0
KV	15,5	31,0	41,3	80,0	141,9	178,2	387,0	670,8	1.169,6	1.456,9	2.228,20

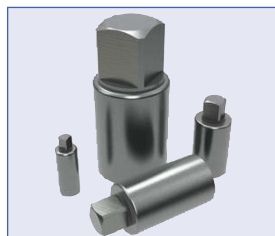
Compact flange ball valve, article 437-VA with optional accessories

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optional accessories consoles / couplings / shaft extensions



ISO 5211 consoles
Steel zinc plated / stainless steel



couplings stainless steel
Square / two-flat



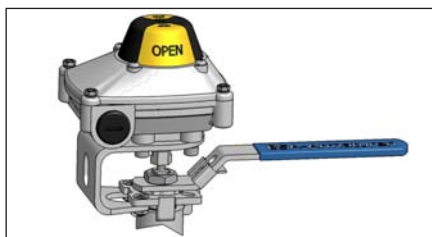
shaft extension ISO 5211
100 mm stainless steel



shaft extension T-handle
100 mm stainless steel

optional accessories limit switch assembly with box or open mounted

limit switch box 2-fold Honeywell, ZM1



switching capacity	max. 5 A, 250 V AC
temperature range	-25° C up to +85° C
cable entry	M20 x 1,5
connection	clamp 2,5 mm ²
body material	aluminium
console	stainless steel
article-no:	179.8705HEZ

mounting kit for switch boxes incl. assembly and adjustment



diameter (ball valve)	article-no:
1/4" ... 1/2"	327.8775.F04VMM
3/4" ... 1"	327.8775.F05VMM
1 1/4" ... 2"	327.8775.F07VMM
2 1/2" ... 4"	327.8775.F10VMM

Bernstein-limit switches type I88-SU1Z RiW K



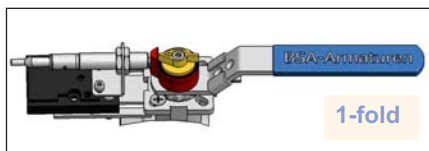
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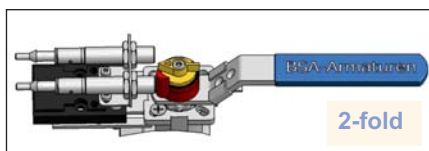
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switching capacity	max. 10 A, 250V AC
temperature range	-30° C up to +80° C
cable entry	M20 x 1,5
connection	clamp 2,5 mm ²
body material	PA 6 self-extinguishing
article-no:	1-fold: 208.8716HKE 2-fold: 208.8716HKZ

IFM proximity switches type IF5297



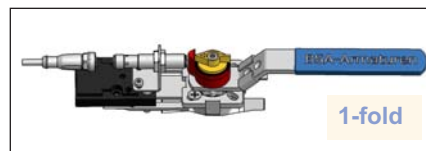
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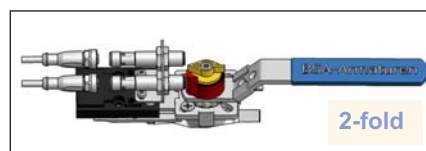
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operating voltage	10 ... 55 V DC
current consumpt.	< 15 mA (24 V)
temperature range	-25° C up to +80° C
body material	brass with LED
mounting bracketed	stainless steel / plastic
article-no:	1-fold: 302.8770HEE 2-fold: 302.8770HEZ

IFM proximity switches type IFS209



1-fold



2-fold

operating voltage	10 ... 30 V DC
current consumpt.	< 12 mA (24 V)
temperature range	-25° C up to +70° C
body material	brass with LED
mounting bracketed	stainless steel / plastic
article-no:	1-fold: 302.8771HEE 2-fold: 302.8771HEZ