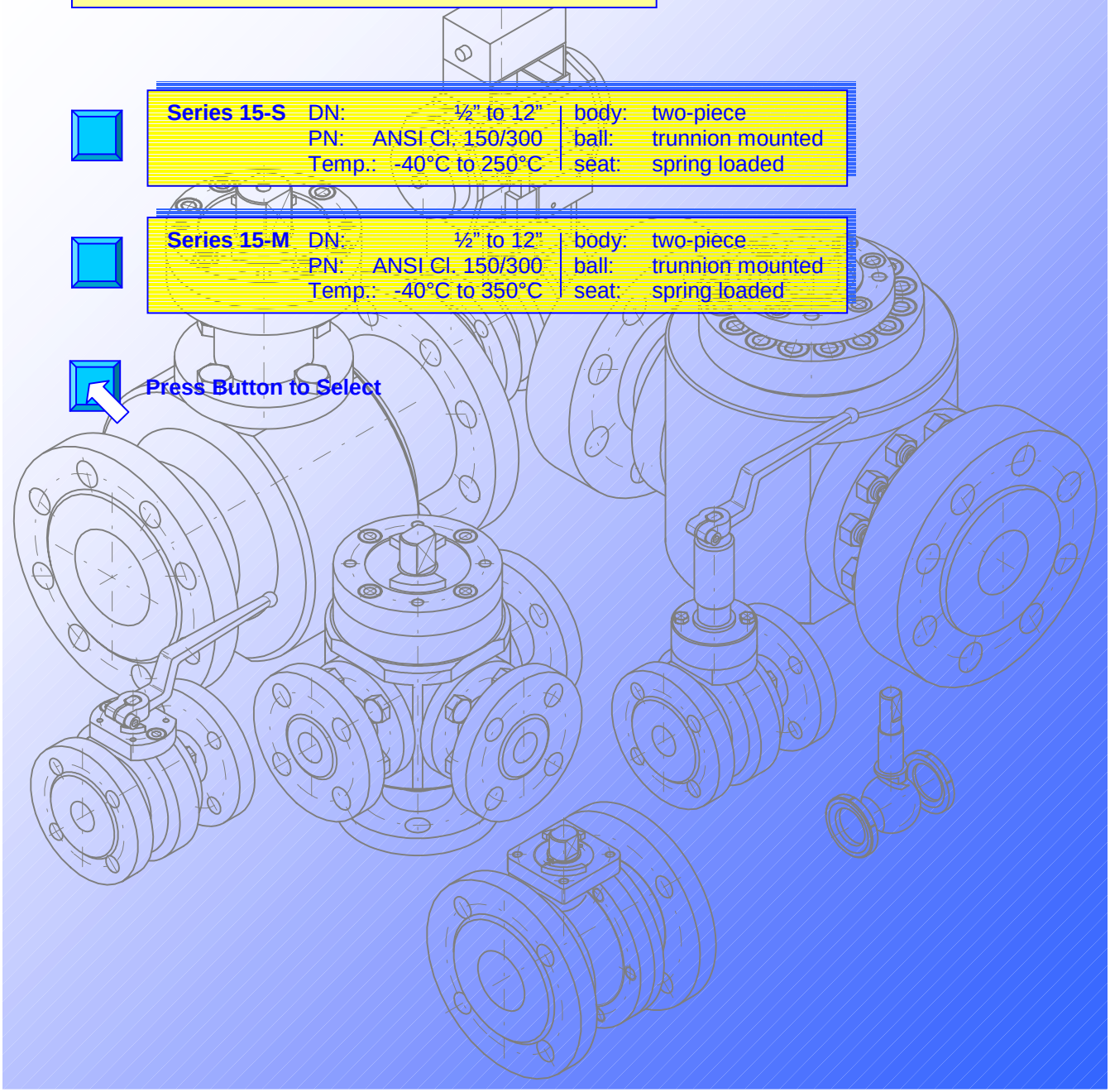
perrin
BALL VALVES

Tank Bottom Ball Valves

Series 15-S	DN:	½" to 12"	body:	two-piece
	PN:	ANSI Cl. 150/300	ball:	trunnion mounted
	Temp.:	-40°C to 250°C	seat:	spring loaded

Series 15-M	DN:	½" to 12"	body:	two-piece
	PN:	ANSI Cl. 150/300	ball:	trunnion mounted
	Temp.:	-40°C to 350°C	seat:	spring loaded

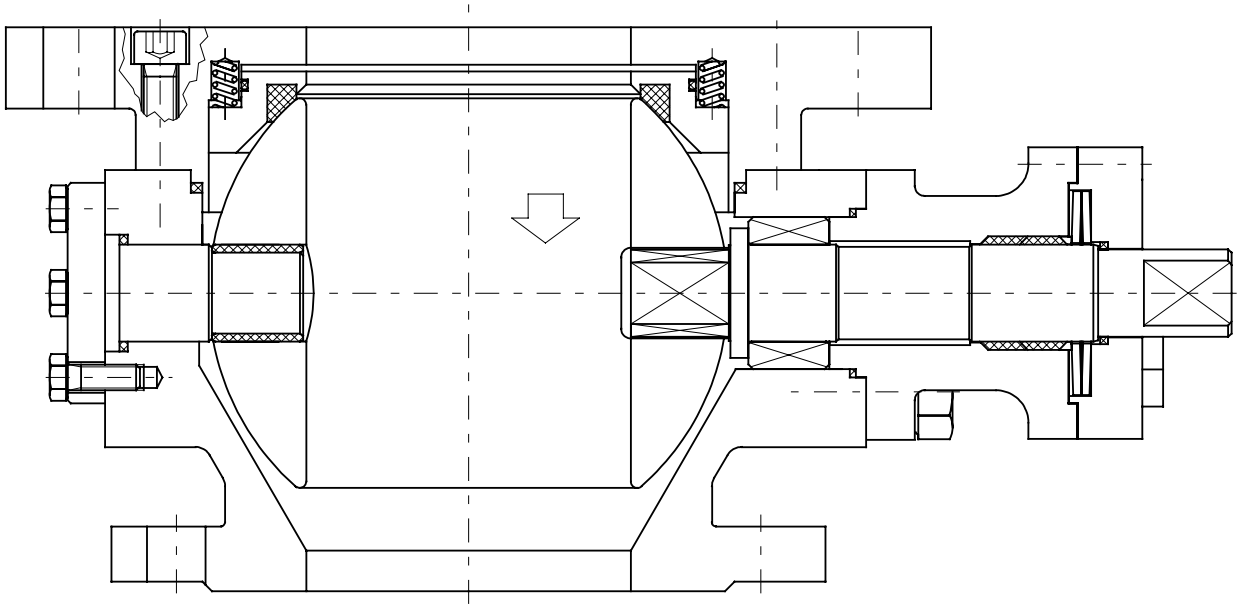
Press Button to Select



Tank-Bottom Ball Valve

Series 15-S

DN 1“ to 12“



Description:

This PERRIN ball valve design features a two piece, bolted body and a trunnion mounted ball. The seat system and the stem packing are spring loaded, resulting in very good sealing properties and a constant torque not influenced by temperature fluctuations. By using the larger inlet-flange the clearance volume above the ball can be reduced to a minimum.

The actuator mounting flange corresponds to the NAMUR recommendations with dimensions to DIN/ISO 5211.

Stem extensions, locking devices and actuators with accessoires can be field mounted at any time.

The ball valve is extradited in antistatic-design, with anti blowout proof stem and, as desired, in " fire-safe design". The stem packing has examined TA-Luft.

Range of application:

DN	PN	Temperature
1“ to 12“	ANSI Cl. 150/300	-40°C to 250°C

1.0 Main parts

item	*designation*
1	body
2	body end connection
3	retainer ring
5	ball
6	stem
7	lower trunnion
8	gland washer
9	bearing bush
10	bearing cover
11	extension
16	plate spring
17	coil spring
18	body gasket
20	o-ring
21	seat ring
23	body gasket
24	stem packing
25	bearing ring
26	bearing
27	body gasket
28	screw
29	screw
30	screw
31	screw

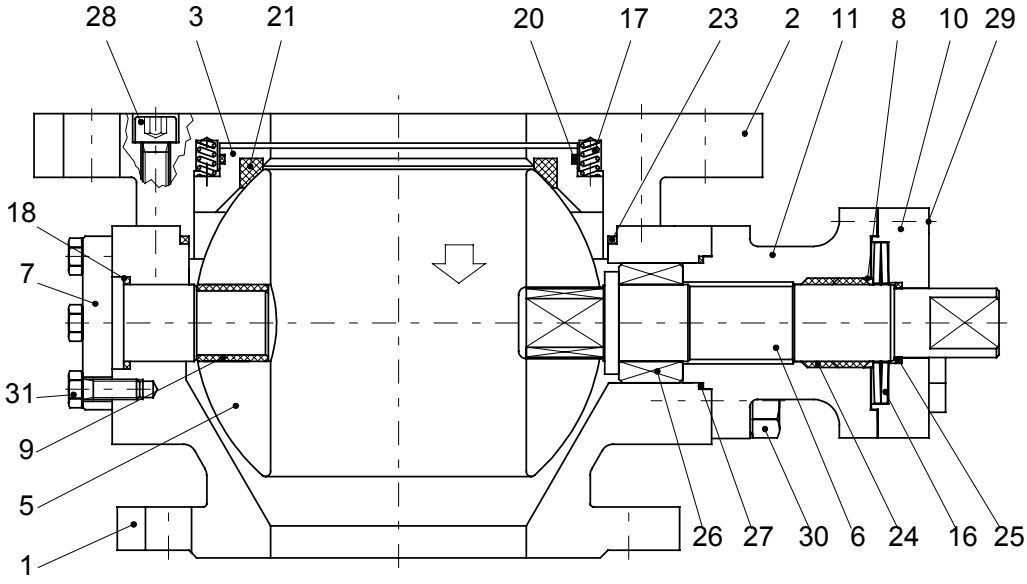


fig. 1
ball valve, series 15-S

2.0 Materials

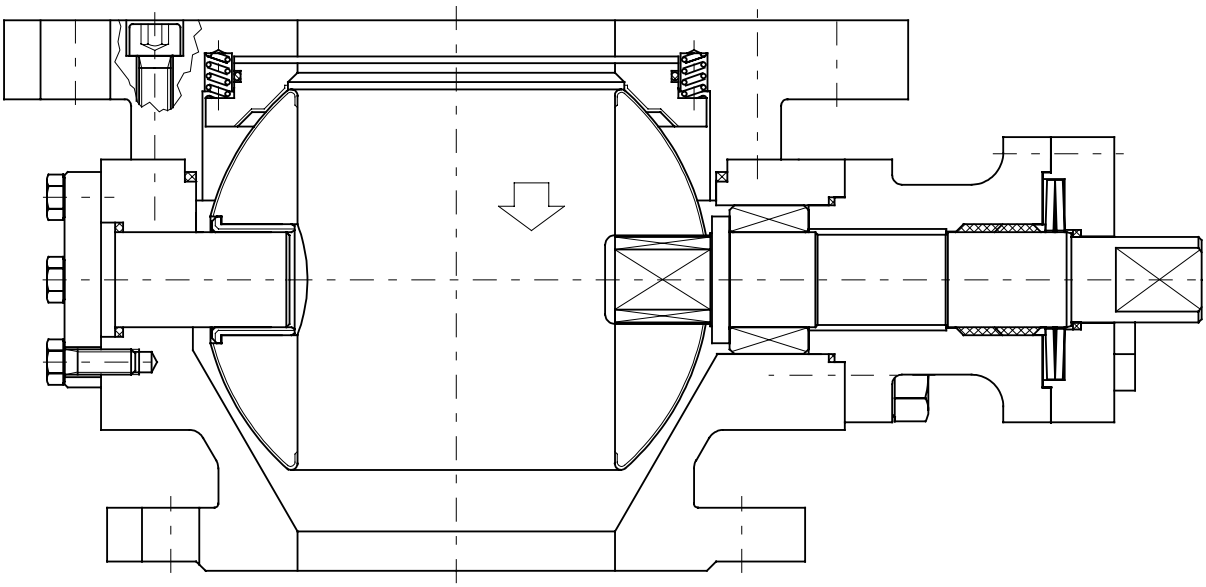
item	designation	temperatures: -40°C to 250°C[1)]	-10°C to 250°C[1)]	
1	body	1.4571 / 1.4408	1.0460 / 1.0619	
2	body end connection			
3	retainer ring	1.4571	1.4571	
5	ball	1.4571 / 1.4404 / 1.4408	1.4571 / 1.4404 / 1.4408	
6	stem	1.4571	1.4571	
7	lower trunnion			
8	gland washer			
9	bearing bush	PEEK	PEEK	
10	bearing cover	1.4571	1.0460	
11	extension			
16	plate spring	1.4568	1.8159	
17	coil spring	1.4571	1.4571	
18	body gasket	PTFE - TFM	PTFE - TFM	
20	o-ring	Polymer or Elastomer	Polymer or Elastomer	
21	seat ring	PTFE - TFM	PTFE - TFM	
23	body gasket			
24	stem packing	PTFE - Graphite	PTFE - Graphite	
25	bearing ring	PTFE - 25% Glass	PTFE - 25% Glass	
26	bearing	Carbon-Antimon	Carbon-Antimon	
27	body gasket	PTFE - TFM	PTFE - TFM	
28-31	screw	A 2-70	A 2-70	

1) Materials for lower/higher temperatures on request..

Tank-Bottom Ball Valve

Series 15-M

DN 1“ to 12“



Description:

This PERRIN ball valve design features a two piece, bolted body and a trunnion mounted ball. The metallic seat system and the stem packing are spring loaded, resulting in very good sealing properties and a constant torque not influenced by temperature fluctuations. By using the larger inlet-flange the clearance volume above the ball can be reduced to a minimum.

The actuator mounting flange corresponds to the NAMUR recommendations with dimensions to DIN/ISO 5211.

Stem extensions, locking devices and actuators with accessoires can be field mounted at any time.

The ball valve is extradited in antistatic-design, with anti blowout proof stem and in " fire-safe design". The stem packing has examined TA-Luft.

Range of application:

DN	PN	Temperature
1“ to 12“	ANSI Cl. 150/300	-40°C to 350°C

1.0 Main parts

item	*designation*
1	body
2	body end connection
5	ball
6	stem
7	lower trunnion
8	gland washer
9	bearing bush
10	bearing cover
11	extension
16	plate spring
17	coil spring
18	body gasket
20	o-ring
21	seat ring
23	body gasket
24	stem packing
25	bearing ring
26	bearing
27	body gasket
28	screw
29	screw
30	screw
31	screw

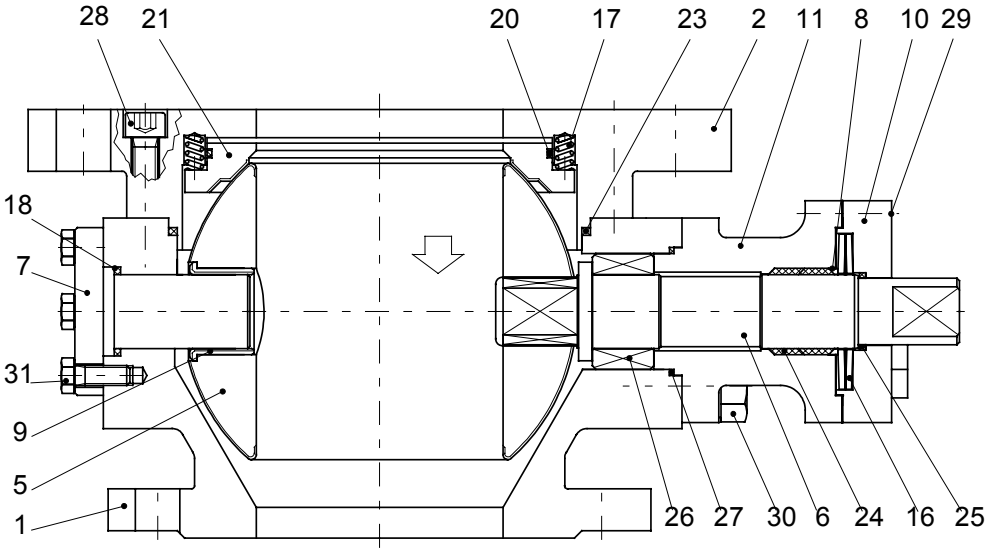


fig. 1
ball valve, series 15-M

2.0 Materials

item	designation	temperatures: -40°C to 350°C[1)]	-10°C to 350°C[1)]	
1	body	1.4571 / 1.4408	1.0460 / 1.0619	
2	body end connection			
5	ball	1.4571 / 1.4408 coated	1.4571 / 1.4408 coated	
6	stem	1.4571	1.4571	
7	lower trunnion			
8	gland washer			
9	bearing bush	1.4571 coated	1.4571 coated	
10	bearing cover	1.4571	1.0460	
11	extension			
16	plate spring	1.4568	1.8159	
17	coil spring	1.4571	1.4571	
18	body gasket	Graphite	Graphite	
20	o-ring	Polymer or Elastomer	Polymer or Elastomer	
21	seat ring	1.4571 coated	1.4571 coated	
23	body gasket	Graphite	Graphite	
24	stem packing			
25	bearing ring	PTFE - 25% Glass	PTFE - 25% Glass	
26	bearing	Carbon-Antimon	Carbon-Antimon	
27	body gasket	Graphite	Graphite	
28-31	screw	A 2-70	A 2-70	

1) Materials for lower/higher temperatures on request..

Technical data, Series 15-S; 15-M

3.0 Technical data

3.1 Nominal size / Dimensions / Connections / Flow / Weights

nom. size inlet	nom. size outlet	dimensions H1	H2	H3	H4	H5	ød	ZF	R	flow k_{v100} [m^3/h] Δp= 1bar	face to face ANSI-[2] flanges Class 150, RF/FF L	L1	DIN-flanges PN 16 - 25 L	L1	connections	weight [kg] ANSI	DIN	actuator-connection DIN/ISO 5211
40	25	61	47	67	23	159	17	12	300	65	98	43	98	43	flanges to DIN 2501 or ANSI B 16.5 (other connections on request)	7,5	7,5	F 07
50	32	72	52	67	23	164	17	12	300	117	98	48	98	48		11	11	F 07
65	40	80	72	84	28	176	27	18	450	196	112	60	112	60		14,5	14,5	F 10
80	50	86	80	85	28	184	27	18	450	325	124	64	124	64		31	31	F 10
100	65	100	90	85	28	194	27	18	450	598	135	67	135	67		48	48	F 10
125	80	119	104	140	37	273	40	32	800	960	164	81	164	81		72	72	F 12
150	100	132	124	140	37	293	40	32	800	1650	174	82	174	82		89	89	F 12
200	125	138	132	140	37	301	40	32	800	2720	275	113	275	113		109	109	F 12
250	150	173	165	142	33	--	58	38	--	4200	292	135	292	135		125	125	F 14
250	200	225	216	150	41	--	68	44	--	8130	345	154	345	154		285	285	F 16
300	250	268	257	195	41	--	82	55	--	13500	405	185	405	185		375	375	F 16
350	300	278	308	230	41	--	82	55	--	20500	470	253	470	253		585	585	F 16

dimensions in mm

[2] ANSI Class 300 on request

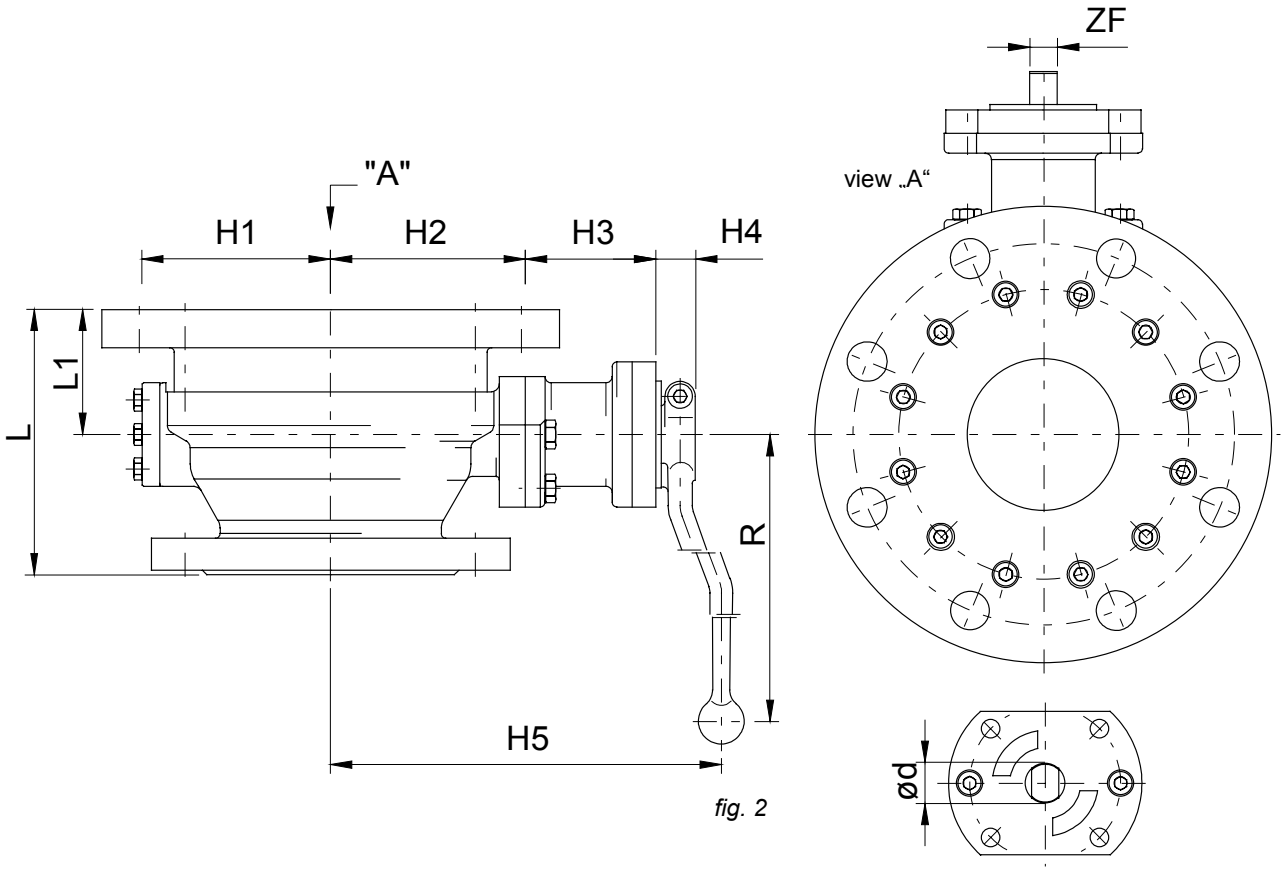


fig. 2

3.2 Special features

profit:

- ready to take actuator
- minimal abrasion
- standard connections
- constant torque
- minimal maintenance

design:

- two piece body
- trunnion mounted ball
- no welds
- anti blowout proof stem
- spring loaded seat system
- live loaded stem packing