Design Attributes

Valves BV42263 are floating type, split body, quick closing 90º rotary ball valves, bidirectional, with tightness achieved by friction of the ball blind ends to the seats. They are devised for stopping the flow of the service fluid when necessary and not being suitable for regulation purposes. Valve closes by turning the hand lever clockwise. They have a robust construction to offer reliable performance in standard services.

Nameplate incl. batch no. for full traceability

Live loaded stem packing, belleville washers automatically adjusting for thermal effects

Blow out proof stem



Ergonomic and rugged lever

Top flange drilled to ISO 5211. A complete range of brackets available for easy and quick automation

Mirror polished st. steel ball, solid type up to DN100. Controlled operating torque and full seat tightness

Floating ball, full bore, split body design, integral flanges, with union bolts in stainless steel

Precision machined components, for optimal valve performance

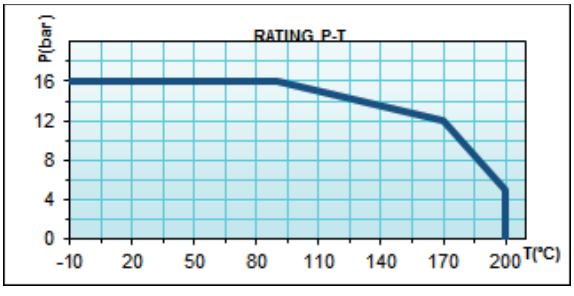
Main Features

Valve design: EN 12516
Nominal pressure: PN16
Face to face length: DN15-100: EN 558 S14 (DIN 3202 F4); DN125-200: EN 558 S15 (DIN 3202 F5)
Valve end connections: Flanged to EN 1092-2 type 21/B, PN16 *(valves DN65 with 4 holes as accepted variant in standard)*
Marking: EN 19
Pressure Tests: EN 12266-1
Seat leakage rate: Rate A (full seat tightness in both directions)
Inside and outside primer paint layer black color for protection during storage and transport
Product compliant with Directive 2014/68/EU on Pressure Equipment (PED) and Machinery Directive 2006/42/EC

Main Duties / Limits of use

Fresh water and neutral liquids of group 2*, acc. to Directive 2014/68/EU, Annex II table 9 up to category I.
Low pressure steam, neutral gases of group 2* acc. to Directive 2014/68/EU, Annex II table 7 up to category I.
Table 7: PS 16 bar DN15-200 (Art.4-Parr.3 DN15-DN50)
Table 9: PS 16 bar DN15-200 (Art.4-Parr.3)
TS: -10/200ºC
Questions referring to chemical resistance, please consult us
Observe also pressure/temperature limits on diagram under
**Classification of fluids (group 2) acc. to Directive 2014/68/EU, Article 13*

P (bar)	16	16	16	12	9	8	5
T (ºC)	-10	50	90	170	183	187	200

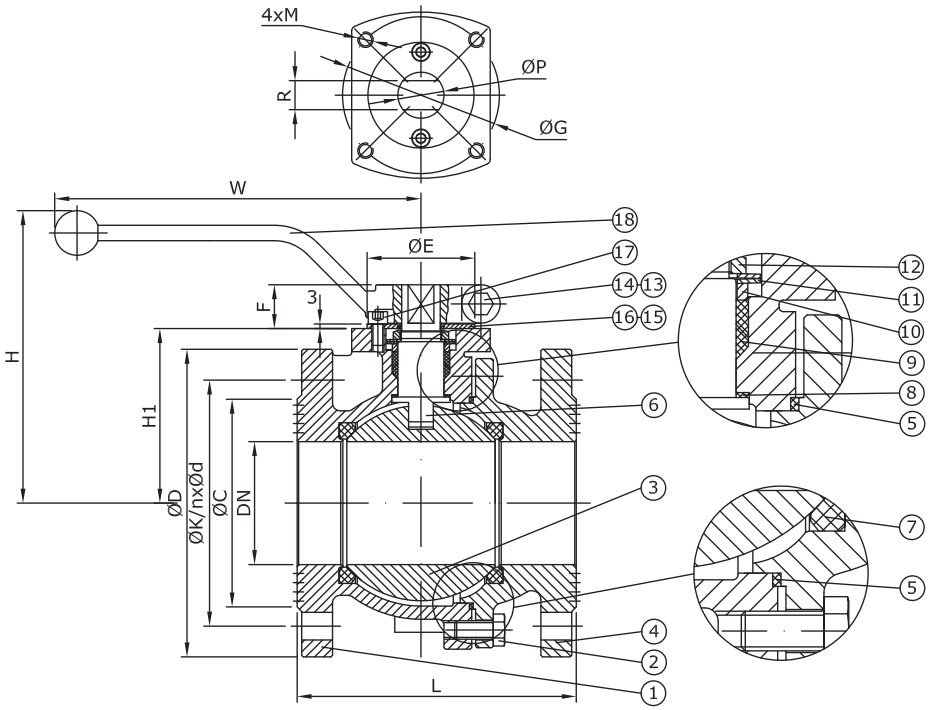


Options

Other designs and approvals, limit switches, different actuation. Please consult us

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Main Parts and Materials



Nº	PART	MATERIAL
1	BODY	Cast iron EN-JL1040 (GG25)
2	STUD BOLTS	St. steel A2-70
3	BALL	St. steel SS304
4	CAP	Cast iron EN-JL1040
5	GASKET	PTFE
6	STEM	St. steel SS304
7	SEAT	PTFE
8	GASKET	PTFE
9	PACKING	PTFE
10	GLAND RING	St. steel SS304
11	BELLEVILLE WASHER	Steel
12	PACKING GLAND NUT	St. steel SS304
13	BOLT	St. steel SS304
14	NUT	St. steel SS304
15	COVER	Steel
16	COVER RING	PTFE
17	STUD BOLTS	St. steel SS304
18	HANDLE	DN15-100 Steel DN125-200 Ductile iron

Main Valve Parameters

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	115	120	125	130	140	150	170	180	190	325	350	400
H	120	120	130	135	170	175	190	220	235	290	310	380
W	175	175	175	175	240	240	240	330	330	690	690	760
ØD	95	105	115	140	150	165	185	200	220	250	285	340
ØK	65	75	85	100	110	125	145	160	180	210	240	295
nxØd	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x22	12x22
ØC	47	57	67	78	88	102	123	135	158	187	213	268
ØE	35	35	35	35	55	55	55	70	70	85	85	100
F	16	16	21	21	25	25	25	27	27	38	38	43
H1	52	54	60	65	75	83	97	114	127	158	175	245
ØG	50	50	50	50	70	70	70	102	102	125	125	140
M	M6	M6	M6	M6	M8	M8	M8	M10	M10	M12	M12	M16
ØP	12	12	16	16	20	20	20	25	25	34	34	42
R	8	8	10	10	14	14	14	19	19	26	26	32
ISO 5211	F05	F05	F05	F05	F07	F07	F07	F10	F10	F12	F12	F14
Kvs-value	18	40	63	108	174	265	475	915	1510	2440	3890	8310
Approx. Weight	3,5	4	5	6,5	9	11,5	16,5	21	27,5	56,5	76,5	135

Dimensions in mm subject to manufacturing tolerance / Kvs-values in m^3/h / Weights in kg

Operating Torques

DN		15	20	25	32	40	50	65	80	100	125	150	200
Differential pressure	5 bar	14	17	20	33	48	57	94	127	165	325	420	570
	10 bar	14	17	20	33	50	60	110	150	195	405	485	860
	16 bar	14	17	21	35	54	67	135	180	220	470	590	1150

Dimensions in mm subject to manufacturing tolerance / Torques in Nm
Minimum Recommended Safety factor for actuator selection: 30%
Above values are given for clean water at ambient temperature
Operating Torque can be increased by many factors (dry gas, viscous liquid, temperature, etc.). Ask our technical department for selection
Valves closed for a long period of time could need a higher breaking torque

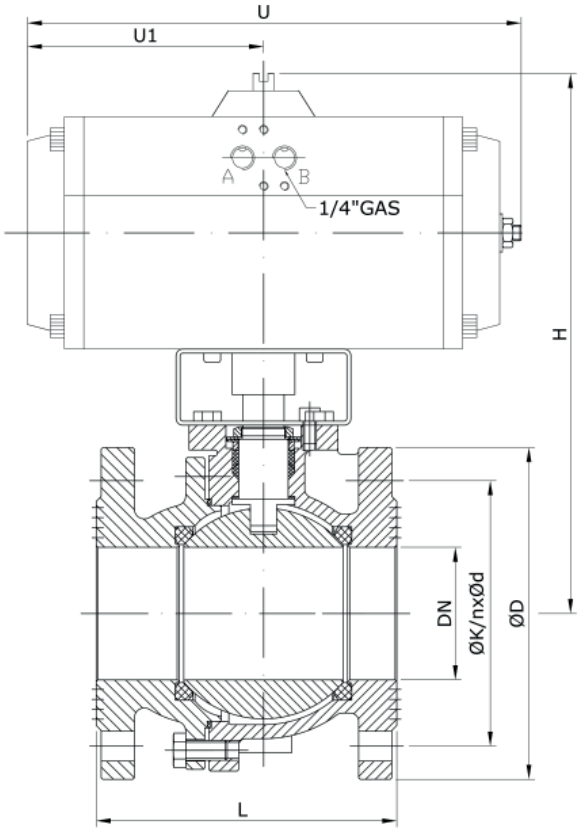
Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsable for the selection of the correct valve
Product suitability must be verified, contact manufacturer for information

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Main Valve Parameters





DN		15	20	25	32	40	50	65
L		115	120	125	130	140	150	170
ØD		95	105	115	140	150	165	185
ØK		65	75	85	100	110	125	145
nxØd		4x14	4x14	4x14	4x18	4x18	4x18	4x18
Double Acting	Type	CMVLTD05	CMVLTD15	CMVLTD15	CMVLTD17	CMVLTD20	CMVLTD25	CMVLTD30
	H	203	215	221	226	253	261	294
	U	119	175	175	207	186	248	241
	U1	59,5	82,5	82,5	98,5	88,5	119,5	115
Single Acting	Type	CMVLTS15	CMVLTS17	CMVLTS20	CMVLTS25	CMVLTS30	CMVLTS35	CMVLTS40
	H	213	215	238	243	272	317	331
	U	175	207	186	248	241	261	305
	U1	82,5	98,5	88,5	119,5	115	123	145
Approx. Weight		5,5	7,5	8	10,5	14	20	26,5

DN		80	100	125	150	200	
L		180	190	325	350	400	
ØD		200	220	250	285	340	
ØK		160	180	210	240	295	
nxØd		8x18	8x18	8x18	8x22	12x22	
Double Acting	Type	CMVLTD35	CMVLTD35	CMVLTD50	CMVLTD55	CMVLTD60	CMVLTD65
	H	368	381	460	477	612	612
	U	261	261	380,5	428	467	525
	U1	123	123	180,5	209	210	251
Single Acting	Type	CMVLTS45	CMVLTS50	CMVLTS60	CMVLTS65	CMVLTS70	CMVLTS75
	H	383	429	515	532	683	683
	U	367	380,5	467	525	636	734
	U1	175,5	180,5	210	251	734	354
Approx. Weight		34,5	49	99	123	218	233

Dimensions in mm subject to manufacturing tolerance / Weights in kg

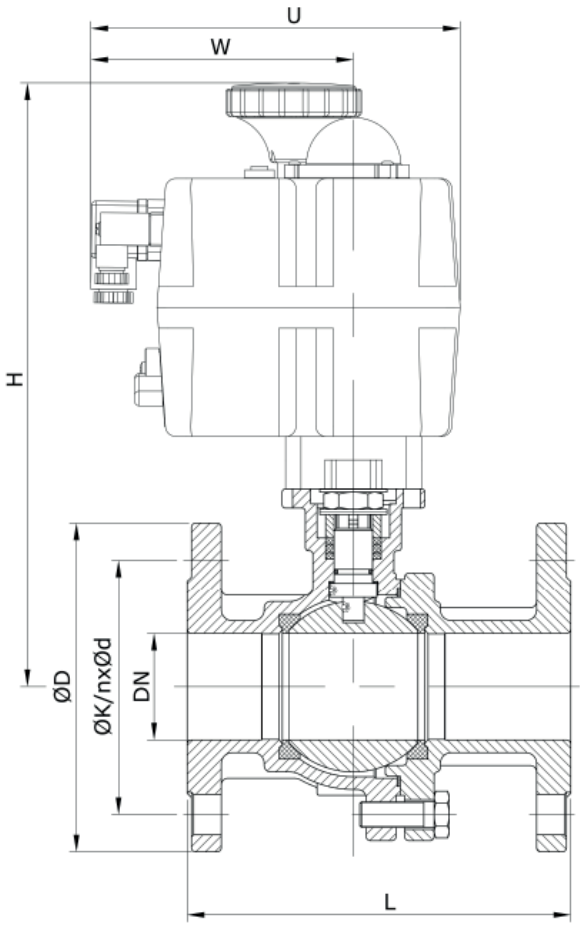
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Main Valve Parameters





DN	MAIN DIMENSIONS				ELECTRIC ACTUATOR				Approx. Weight
	L	ØD	ØK	nxØd	Type	H	U	W	
15	115	95	65	4x14	CMVL H20/L20	220	177	126	4,5
20	120	105	75	4x14	CMVL H20/L20	230	177	126	5,0
25	125	115	85	4x14	CMVL H20/L20	230	177	126	6,0
32	130	140	100	4x18	CMVL H55/L55	290	177	126	8,0
40	140	150	110	4x18	CMVL H55/L55	300	177	126	10,0
50	150	165	125	4x18	CMVL H55/L55	310	177	126	13,5
65	170	185	145	4x18	CMVL H140/L140	385	235	128	22,0
80	180	200	160	8x18	CMVL H140/L140	395	235	128	26,0
100	190	220	180	8x18	CMVL H300/L300	415	235	128	32.0
125	325	250	210	8x18	(1)	-	-	-	-
150	350	285	240	8x22	(1)	-	-	-	-
200	400	340	295	12x22	(1)	-	-	-	-

(1) On request

Dimensions in mm subject to manufacturing tolerance / Weights in kg

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