CAST JADE

Wafer ball valve in stainless steel or carbon steel, of solid and advanced design is backed by the twenty-year experience gained by ENOLGAS in the production of ball valves.
In order to keep tolerances and material quality constant, investment casting of body and end adapter was preferred to forging, with careful subsequent toolings on CNC machines, wich guarantee a high quality standard.
Leading design and accurate machining and finishing of the valves guarantee a perfect tightness and lifetime troubleless working operations.

TECHNICAL FEATURES
Triple seal blow out-proof stem.
Two spring washers on top of the stem packing.
Quarter turn stop working also without lever.
Full bore.

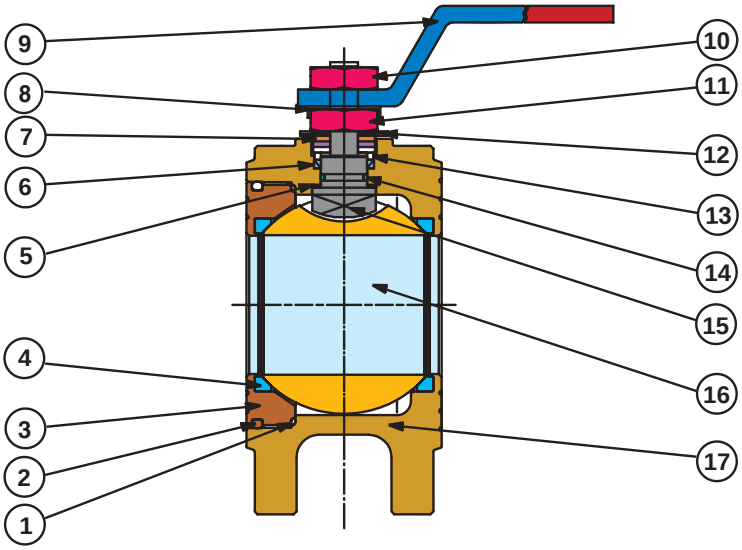
JADE
Line is available in stainless steel and carbon steel.
ISO mounting holes for actuators.
Fire safe BS 6755, API 6FA, API 607.
General prescription BS 5351.
Connetion with actuator ISO 5211.

END CONNECTIONS
Flanges to UNI 2223-2229
DIN 2501 BL.1
ANSI B16.5.

WORKING PRESSURE
Standard PN 16
On request PN 25/PN 40 and ANSI 150.

TEMPERATURE LIMITS
From -20°C to +180°C

UTILISATION
Chemicals, oil derivatives, hydraulics, pneumatics, water, gases and vacuum.
For special uses, see the table of chemical resistance.



	Item	Description	JADE stainless steel		JADE carbon steel	
1	Static gasket	From bar	Virgin P.T.F.E.		Virgin P.T.F.E.	
2	Static O-Ring	Black	NBR		NBR	
3	Body insert	From bar	AISI 316	D 1.4401	A 105	
4	Ball seats	From bar	Virgin P.T.F.E.		Virgin P.T.F.E.	
5	Thurst washer	From bar	Virgin P.T.F.E.		Virgin P.T.F.E.	
6	Stem packing	From bar	Virgin P.T.F.E.		Virgin P.T.F.E.	
7	Operation-stop	Blanked	AISI 304	D 1.4301	AISI 304	D 1.4301
8	Fixing-nut-plat	Blanked	AISI 304	D 1.4301	AISI 304	D 1.4301
9	Lever handle	P.V.C. insulated red color	AISI 304	D 1.4301	Fe PO2 Zinc. plated steel	
10	Locking nut	Forged	AISI 304	D 1.4301	Zinc. plated steel	
11	Stem retaining-nut	Forged	AISI 304	D 1.4301	Zinc. plated steel	
12	Spring washers	Drawn	AISI 301	D 1.4310	50 CrV4	
13	Packing washers	From bar	AISI 303	D 1.4305	AISI 303	D 1.4305
14	O-ring	Green or black	Fluoroelastomer		Fluoroelastomer	
15	Stem	From bar	AISI 316	D 1.4401	AISI 304	D 1.4301
16	Ball	Forged	AISI 316	D 1.4401	DN 15/40 AISI 316	D 1.4401
					DN 50/100 AISI 304	D 1.4301
17	Body	Investement casting	AISI 316	D 1.4408		

ISO 9001
Cert. n° 0015

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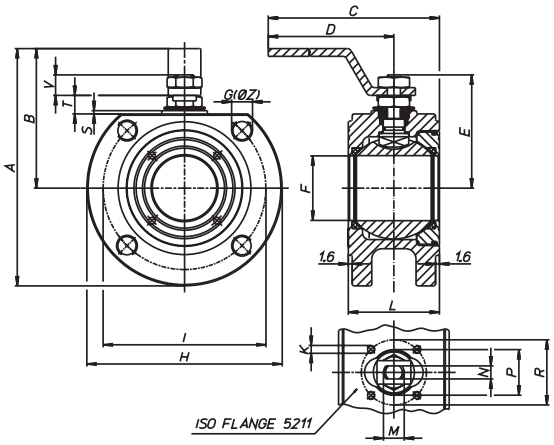
SPECIAL EXECUTIONS



- 15% GLASS-FILLED PTFE Temperature limits -10°C + 195°C
- PTFE+CARBOGRAPHITE with temperature limits -10°C + 210°C
- Integral seats in PTFE from DN 15 to DN 100
- Reduction gear with manual operation
- Yellow lever handle for gas
- Drilled ball and unidirectional valve
- Antistatic device from DN 15 to DN 32
- On request the valve is available with ATEX certificate
- Body in LF2 up to -20°C
- Construction AISI 304
- Ball in brass
- Degreased version

AVAILABLE ACCESSORIES

Extended stem for insulated pipes.

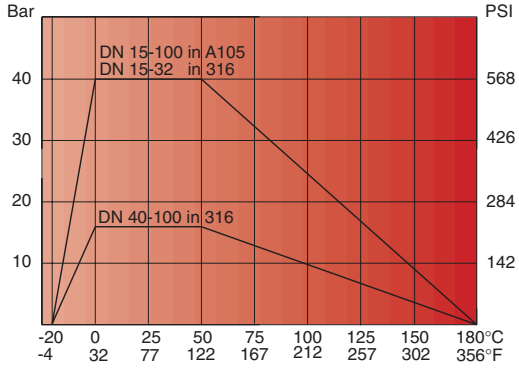
Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	I mm	L mm	M mm	N mm	P mm	R mm	S mm	T mm	V mm	Z mm	N° holes	PN	ISO FLANGE	weight gr.
DN32	150	85	205	180	67	32	M16	130	M5	100	50	M12	8	30	42	2	9,5	11,5	18	4	40	F04	4040
DN40	172	102	260	230	80	40	M16	150	M6	110	60	M16	10	35	50	2,5	14	16	18	4	16/40	F05	4230/ 5540
DN50	193	110	265	230	87	50	M16	165	M6	125	70	M16	10	35	50	2,5	14	16	18	4	16/40	F05	5840/ 7250
DN65	230	137,5	380	333	119,5	65	M16	185	M8	145	95	M22	14	55	70	3	18,7	20,8	18	4	16/40	F07	10280
DN80	250	150	395	333	129,5	78	M16	200	M8	160	122	M22	14	55	70	3	18,7	20,8	18	8	40	F07	13790
DN100	275	165	440	370	148,5	96	M16	220	M8	180	140	M27	16	70	102	3	22,2	25,3	18	8	16	F10	20110

Breaking Torque in Nm

DN size		32	40	50	65	80	100			
PN - bar	0	16	25	35	55	75	150			
	16	19	28	39	59	84,5	168			
	25	20,5	29,5	41,5	62,5	92	180			
	40	22,5	31,5	44	67	99	195			
		Nm								

Values in Nm can change depending on the material used for seats, on temperature and on the fluid used.
For a safe working of the various sorts of servocontrol, it is necessary to consider a safety factor = 1,5 in each condition. While the valve is working, with frequent on/off cycles, the operationg torque can become extremely low in comparison with the beginning one.

PRESSURE/TEMPERATURE DIAGRAM



LOSS OF HEAD DIAGRAM