

# 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, which guarantee a high quality standard. Leading design and accurate machining and finishing of the valves guarantee a perfect tightness and lifetime troubleless working operations.



INDUSTRIAL VALVES

## 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

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

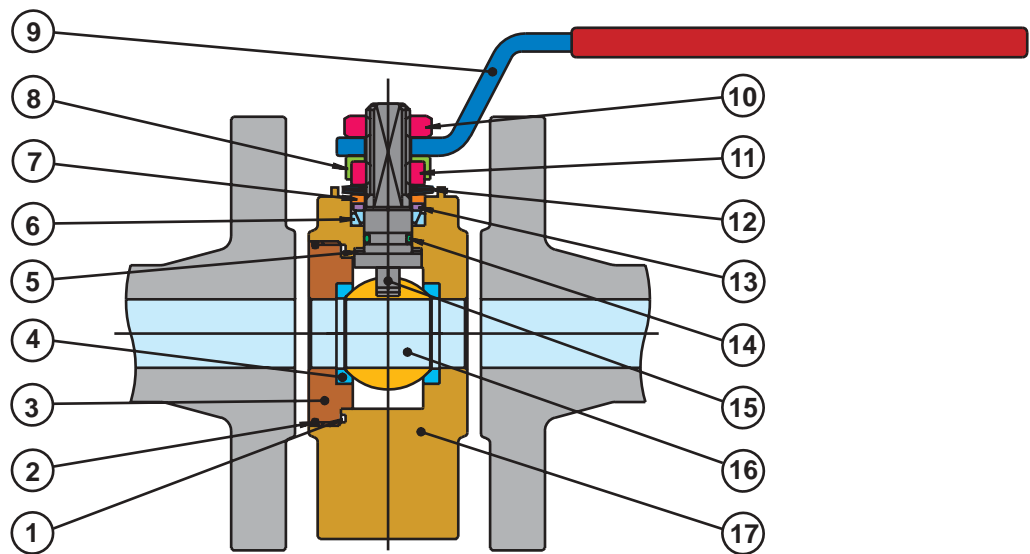
Standard PN 16  
On request PN 25/PN 40 and ANSI 150.

## TEMPERATURE LIMITS

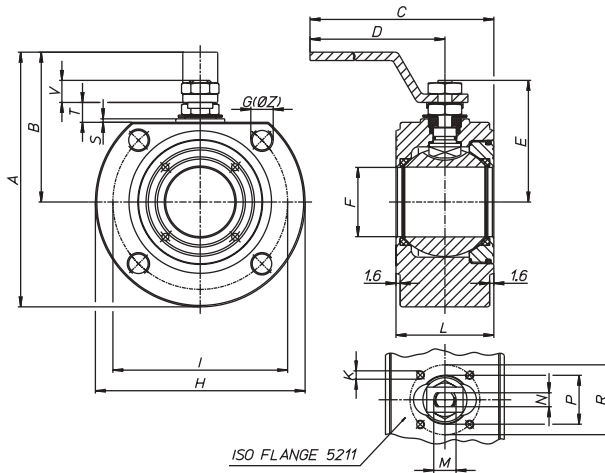
From -20°C to +180°C

## 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.
2	Static O-Ring	Black	NBR
3	Body insert	From bar	AISI 316 D 1.4401
4	Ball seats	From bar	Virgin P.T.F.E.
5	Thurst washer	From bar	Virgin P.T.F.E.
6	Stem packing	From bar	Virgin P.T.F.E.
7	Operation-stop	Blanked	AISI 304 D 1.4301
8	Fixing-nut-plate	Blanked	AISI 304 D 1.4301
9	Lever handle	P.V.C. insulated red color	Fe PO2 Zinc. plated steel
10	Locking nut	Forged	AISI 304 D 1.4301
11	Stem retaining-nut	Forged	AISI 304 D 1.4301
12	Spring washers	Drawn	AISI 301 D 1.4310
13	Packing washers	From bar	AISI 303 D 1.4305
14	O-ring	Green or black	Fluoroelastomer
15	Stem	From bar	AISI 316 D 1.4401
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	From bar	AISI 316 D 1.4401



- 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
- Drilled ball and unidirectional valve
- Antistatic device from DN 15 to DN 32
- ATEX certificate
- Body in LF2 up to -20°C
- Construction AISI 304
- Ball in brass
- Degreased version
- Also available with contained ball

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.
DN15	110	65	160	140	48	15	M12	90	M5	65	35	M10	6	25	36	2	8	9	14	4	40	F03	1345
DN20	120	70	160	140	51	20	M12	100	M5	75	38	M10	6	25	36	2	8	9	14	4	40	F03	1810
DN25	137	82	200	180	62,5	25	M12	110	M5	85	43	M12	8	30	42	2	11,5	11,5	14	4	40	F04	2505
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	3995
DN40	172	102	260	230	80	40	M16	140	M6	110	60	M16	10	35	50	2,5	14	16	18	4	40	F05	5540
DN50	185	110	265	230	87	50	M16	150	M6	125	70	M16	10	35	50	2,5	14	16	18	4	40	F05	7300
DN65	225	137,5	400	350	119,5	65	M16	175	M8	145	95	M22	14	55	70	3	18,7	20,8	18	4/8	16/40	F07	15000
DN80	245	150	410	350	129,5	78	M16	190	M8	160	118	M22	14	55	70	3	18,7	20,8	18	8	40	F07	19500
DN100	275	165	580	508	148,5	96	M16	220	M10	180	140	M27	16	70	102	3	22,2	25,3	18	8	16	F10	31500

### Breaking Torque in Nm

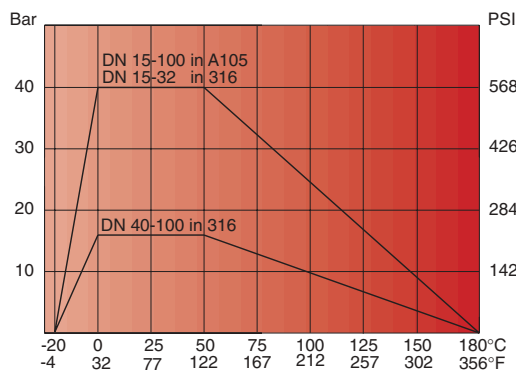
DN size	15	20	25	32	40	50	65	80	100	
PN - bar	0	4	7	10	16	25	35	55	75	150
	16	4,8	8,5	11,3	19	28	39	59	84,5	168
	25	5,2	9,1	12	20,5	29,5	41,5	62,5	92	180
	40	6	10,5	13	22,5	31,5	44	67	99	195

**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 operating torque can become extremely low in comparison with the beginning one.

### PRESSURE/TEMPERATURE DIAGRAM



### LOSS OF HEAD DIAGRAM

