

## Art. "F" - BRASS BALL VALVE



### DESCRIPTION

Ball valve with rotary pneumatic actuator.

Valve body: brass OT 58 nickel plated.

Ball: brass OT 58 heavy duty chromium plated.

Ball gasket: Virgin PTFE.

### TECHNICAL FEATURES

#### Allowable temperatures:

For liquid: from - 20°C up to + 130°C (with peaks of 150°C).

For gas: from - 20°C up to + 60°C.

#### Maximum temperatures for special uses ( valve all open)

+100°C - fuel oils, mineral oils, margarine;

+ 90°C - seawater, drinking water (municipal water system);

+ 60°C - trichloroethylene, butane, methane, propane, carbon dioxide;

+ 40°C - inflammable alcohol, gasoline, illuminating gas, natural gas, limewater, soda water.

### PRESSURE/TEMPERATURE LIMITS' DIAGRAM

For any pressure level there is the corresponding allowable temperature level.

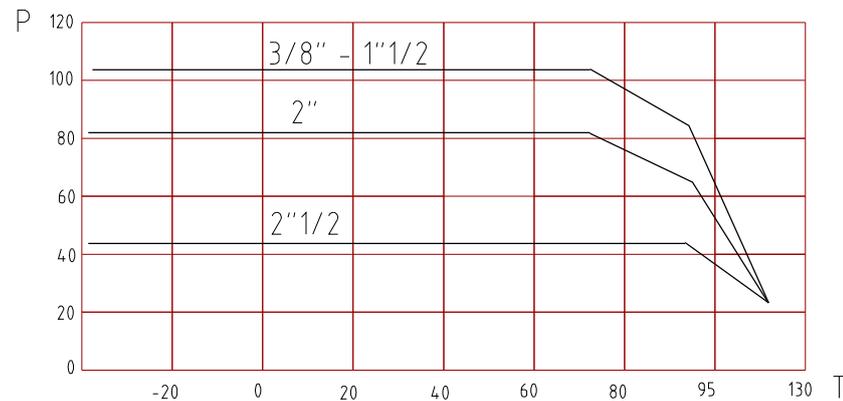


Diagram made with the following analysis:

Inside seats and seal: hydraulic-test of recirculation water-glycol at 50%, water hammer 1.1 PN e n° of cycles following UNI EN3828 - EN331.

Outside body and seal: hydraulic-test static 1.5 PN.

**Limits of pressure:** for liquids from 100 bar up to 40 bar.  
for gas PN 5.

### ACTUATOR PILOT PRESSURE

Double acting versions: from 3 to 8 bar.

Single acting versions: from 6 to 8 bar.

Connections with inner GAS ISO 228 thread female-female.

On request with inner NPT connections.

Control air 1/8" GAS connections.

### VERSIONS AND SIZES

DA: 3/8" - 1/2" - 3/4" - 1" - 1" 1/4 - 1" 1/2 - 2" - 2" 1/2

SANC: 3/8" - 1/2" - 3/4" - 1" - 1" 1/4 - 1" 1/2 - 2"

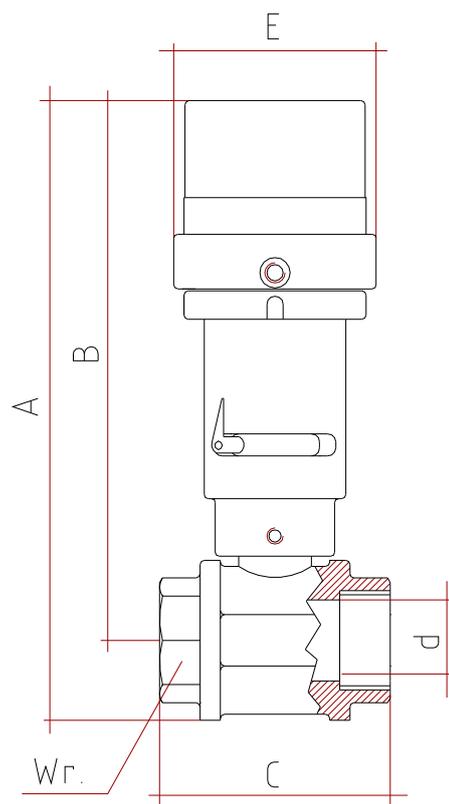
SANO: 3/8" - 1/2" - 3/4" - 1" - 1" 1/4 - 1" 1/2 - 2"

### ANODIZING TREATMENT ON OUTSIDE DETAILS

MADE IN ALUMINIUM.

Art. "F" -

OVERALL DIMENSIONS



DOUBLE ACTING

DN	G	ACTUATOR	A	B	C	d	E	Wrench	Kv	Weight
mm.		type	mm.	mm.	mm.	mm.	mm.	mm.	m3/h	gr.
10	3/8"	DE5002	207	193	54	10	65	22	11	1080
15	1/2"	DE5002	213	195	69	15	65	27	20	1220
20	3/4"	DE6302	241	218	77	20	77	33	60	1640
25	1"	DE6302	250	223	89	25	77	40	100	1900
32	1"1/4	DE8003	294	261	103	32	100	50	130	3420
40	1"1/2	DE8003	307	267	114	40	100	55	170	4120
50	2"	DE8003	327	279	134	50	100	70	280	5480
65	2"1/2	DE1004	358	298	147	65	120	86	510	8400

SINGLE ACTING (NC - NO)

DN	G	ACTUATOR	A	B	C	d	E	Wrench	Kv	Weight
mm.		type	mm.	mm.	mm.	mm.	mm.	mm.	m3/h	gr.
10	3/8"	SE5002	207	193	54	10	65	22	11	1160
15	1/2"	SE5002	213	195	69	15	65	27	20	1280
20	3/4"	SE6302	241	218	77	20	77	33	60	1800
25	1"	SE6302	250	223	89	25	77	40	100	2040
32	1"1/4	SE8003	294	261	103	32	100	50	130	3620
40	1"1/2	SE8003	307	267	114	40	100	55	170	4340
50	2"	SE1004	359	310	134	50	120	70	280	7320

**Art. "F" - BRASS BALL VALVE - LIGHT MODEL**



**DESCRIPTION**

Ball valve with rotary actuator.  
Valve body: brass.  
Ball: brass heavy duty chromium plated.  
Ball gasket: Virgin PTFE.

**ALLOWABLE TEMPERATURES**

Operating temperature: from -15°C to +100°C.  
Max operating temperature for special uses (valve all open):  
+100°C - fuel oils, mineral oils, margarine;  
+ 90°C - seawater, drinking water (municipal water system);  
+ 60°C - trichloroethylene, butane, methane, propane, carbon dioxide;  
+ 40°C - inflammable alcohol, gasoline, illuminating gas, natural gas, limewater, soda water.

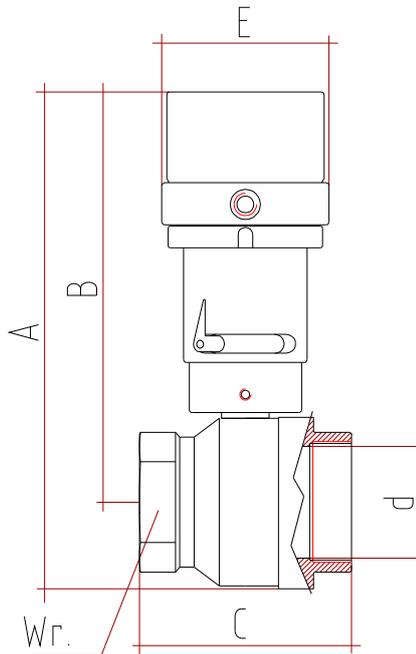
**ACTUATOR PILOT PRESSURE**

From 3 to 8 bar.  
Connections with inner GAS ISO 228 thread female-female.  
On request with inner NPT connections.  
Control air 1/8" GAS connections.

**VERSIONS AND SIZES**

DA: 3" - 4"

**ANODIZING TREATMENT ON OUTSIDE DETAILS  
MADE IN ALUMINIUM**

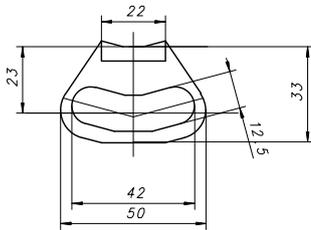
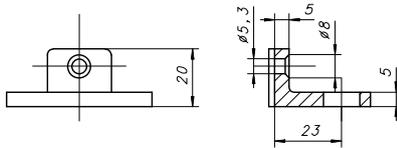


**OVERALL DIMENSIONS**

DOUBLE ACTING

DN	G	ACTUATOR	A	B	C	d	E	Wrench	Kv	Weight
mm.		type	mm.	mm.	mm.	mm.	mm.	mm.	m <sup>3</sup> /h	gr.
80	3"	DE1004	355	293	151	75	120	94	770	6900
100	4"	DE1155	433	358	180	90	134	120	1200	11400

**MOUNTING BRACKETS KIT FOR SWITCHES - BALL AND BUTTERFLY VALVES**



It is possible to fit switches on valves already installed by using the mounting bracket kit that it can be also bought separately;

It includes:

- No. 2 clamps to fit in the relevant holes present on the actuator,
- No. 1 pin dia.8 mm for actuators 5002,6302,8003 or dia. 10mm for actuators 1004, 1155 to apply in place of the position indicator,
- Attachment screws.

It can be equipped only the mounting Kit for the use of switch different from those we supplied.

**ATTENTION:** in the purchase order it is necessary to specify if the Kit has to be for proximity switch or for the electromechanical ones.

All the valves with rotary actuator can be supplied with proximity and electromechanical switch. They can be fit one by one or a pair of them to signal the position open or closed of the valve.

The proximity and electromechanical switches that we supply have the following features:

**PROXIMITY SWITCH IN DIRECT CURRENT (D.C)**

Inductive proximity switch with threaded body M12, available in the PNP or NPN version.  
Feed 10-30 Vdc .  
Max current 200mA.  
Max residual ripple 10%.  
Degree of protection IP 67.  
Line of temperature -25°C +70°C.  
Equipped with a signalling LED and 2m of cable.

**ELECTROMECHANICAL SWITCH**

The electromechanical proximity switch is actuated by a pin mounted in place of the position indicator. It has two contacts, one open and the other closed, electrically splitted.  
Degree of protection IP 67.  
In accordance with the rules IEC, VDE, NFC, CEI.  
Lengh of cable 2m.

