

# PRO Range

FLANGED CAST IRON VALVE WITH STAINLESS STEEL BALL

## USE

- heating/cooling systems
- systems using alternative energy
- industrial systems using hot and cold fluids
- automation plants
- irrigation systems
- waterworks

# FLANGED CAST IRON



## FUNCTIONS

The 2-way flanged ball valves, in combination with the suitable actuator of the **PRO Range**, are used to intercept and regulate fluids.

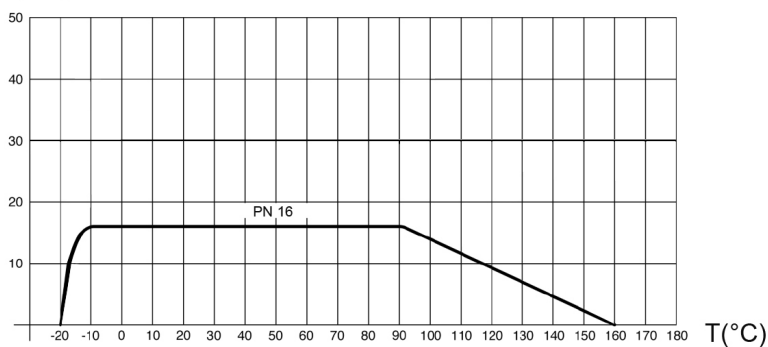
## TECHNICAL FEATURES

### BALL VALVES

## Flanged cast iron STAINLESS STEEL BALL

PN [bar]

DIAGRAM PN = f(T)



When the value of the flow is known, the general expression for the calculation of pressure losses is the following:

$$\Delta p [\text{bar}] = \left[ \frac{Q [\text{m}^3/\text{h}]}{k_v} \right]^2$$

The expression provided applies to water or technically similar fluids.

**FLUIDS** Water (glycol max 30%) and EPDM & PTFE-compatible fluids

### TEMPERATURES

- Minimum -10°C
- Maximum +120°C



# PRO Range

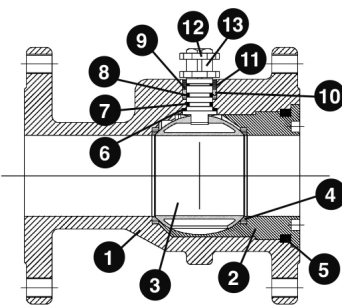
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## VERSIONS AND HYDRAULIC FEATURES



DN	Flanged Connections	PN	$\Delta p$ max [bar]	$Kv_s$ [m <sup>3</sup> /h]	To be combined with actuator
25	PN 16	16	16	64,5	COMPACT PRO
32	PN 16	16	10	103,8	COMPACT PRO
			16		UNIVERSAL PRO
40	PN 16	16	16	174	UNIVERSAL PRO
50	PN 16	16	16	301,3	UNIVERSAL PRO

## MATERIALS USED

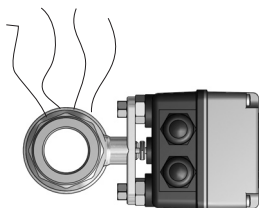


1	BODY	EN-GJL-250
2	RING	ASTM A105
3	BALL	A351-CF8
4	BALL SEAL	P.T.F.E.
5	O-RING	NBR
6	ROD WASHER	P.T.F.E.
7	O-RING	NBR
8	ROD SEAL	P.T.F.E.
9	PACKING SLEEVE	CARBON STEEL
10	HALF-TURN WASHER	INOX AISI 430 (DN25-50)
11	DISK SPRING	CARBON STEEL
12	NUT	CARBON STEEL
13	ROD	A479-Tp304

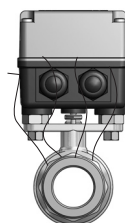
## INSTALLATION

The valve shall not be installed with the actuator's connection facing downwards.

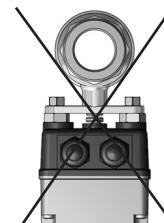
### RECOMMENDED POSITION



### ALLOWED POSITION



### FORBIDDEN POSITION



**CAUTION!** Do not use high-pressure water directly on the actuator (e.g. a pressure washer)

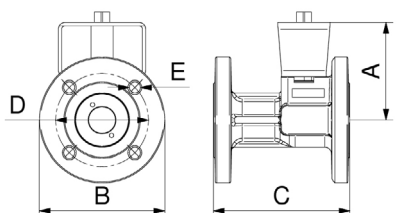


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**OVERALL SIZE**

**BALL VALVE**

MODEL	DN	Ø	A	B	C	D	E
 <p><b>FLANGED 2-WAY</b></p>	25	1"	90	115	125	85	4 x M12
	32	1"1/4	96	140	130	100	4 x M16
	40	1"1/2	114	150	140	110	4 x M16
	50	2"	121	165	150	125	4 x M16

**ACTUATOR COMBINATION**

The ball valves can be combined with all the IP67 and IP68 actuators in the **Compact PRO** and **Universal PRO** range, depending on their use.

## FLANGED CAST IRON



DN	Ø	2-way FLANGED BALL cast iron
25	1"	COMPACT PRO
32	1"1/4	COMPACT PRO UNIVERSAL PRO
40	1"1/2	UNIVERSAL PRO
50	2"	UNIVERSAL PRO

**COMPACT PRO**

- COMPACT PILOT
- COMPACT SMART PRO
- COMPACT CLIMA
- COMPACT CRONO
- COMPACT PRO IP68
- COMPACT DC

**UNIVERSAL PRO**

- UNIVERSAL PILOT
- UNIVERSAL SMART PRO
- UNIVERSAL PRO IP68



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**EXAMPLE OF SPECIFICATIONS**

**UNIVERSAL PRO ACTUATOR** • ALL IN ONE, 2-point ON/OFF and 3-point ON/OFF or modulating, nominal torque: 40 Nm, power supply: 230 V - 50/60 Hz, operating time: 55 sec / 90°, operating angle: 90°, protection degree: IP67, for 2 or 3-way ball valve, connection to ball valve via ISO 5211 F05/F07 connection, two auxiliary microswitches and manual override from the top.

**BALL VALVE** • EN-GJL-250 cast iron flanged ball valve, A351-CF8 stainless steel ball valve, PTFE seals, full bore, PN16, PN16 flanged connections. Operating temperatures -10°C...+120°C. Fluid type: water with maximum 30% glycol and fluids compatible with EPDM and P.T.F.E. Connection to the actuator via ISO 5211 adapter (included).

Version: 2-way flanged PN16 DN40 - 1"1/2 - Kvs 174.

Brand: **COMPARATO**

Code: **UY222AE2F6**

**UPDATED DATA SHEETS AVAILABLE AT [www.comparato.com](http://www.comparato.com)**

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17014 CAIRO MONTENOTTE (SV) ITALIA VIALE DELLA LIBERTÀ • LOCALITÀ FERRANIA • Tel. +39 019 510.371 - FAX +39 019 517.102

[www.comparato.com](http://www.comparato.com)

e-mail: [info@comparato.com](mailto:info@comparato.com)

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