Optibal ball valves

Shut-off made easy

oventrop

Optibal
Ball valves for all applications

YOUR BENEFITS AT A GLANCE

+ ***Full*** flow
+ ***Wide*** range of application
+ ***All common types of handles:*** extended plastic handle, lever and T-handle
+ ***Hard chrome-plated*** ball surface
+ ***Easy insulation*** of the models with extended plastic handle or with spindle extension
+ ***High pressure ratings*** due to blow-out-proof switching shaft and high body strength
+ Possibility of ***retrofitting*** the extended plastic handles with a thermometer
+ Components and auxiliary materials ***free of silicone***
+ Suitable for water-glycol mixtures ***up to 50 % glycol***

The Optibal product family
Safe shut-off

With our **Optibal** ball valves you can control the ***shut-off of media-carrying pipes.*** Depending on the design, you can use them for ***different media***, for example water, mineral, heating and hydraulic oils, fuel or air.

You can simply open and close the ball valve with a 90° turn. ***The handle shows you the respective switching position*** because it is parallel to the ball bore.

Even if you have taken off the handle, the two-sided spindle ***clearly indicates the respective position***.

VERSATILE AND FLEXIBLE

+ Full flow
+ Nominal size DN 8 to DN 100
+ Operating pressure up to 16 bar, **Optibal HT** up to 30 bar
+ Operating temperature -10 to 100 °C
+ Different connection variants
+ Accessories (thermal insulation shells, thermometer, etc.)

Our ball valves
Everything tight

The **Optibal** ball valves are available with ***all common handle types:***

WITH EXTENDED PLASTIC HANDLE

+ Including red cover plug for pipeline identification
+ Easy insulation due to extended plastic handle
+ Thermal insulation shells available as accessories

WITH LEVER

+ Can be insulated after installation of a spindle extension or conversion to an extended plastic handle

WITH T-HANDLE

+ Can be insulated after installation of a spindle extension or conversion to an extended plastic handle

Our versatile specialists

Every application under control

Optibal ball valves are available in many designs and variants – so you ***always have the optimum solution at hand:***

OPTIBAL WITH THERMOMETER

- + With thermometer in the extended plastic handle
- + Full flow
- + Nominal size DN 10 to DN 50
- + Both sides internal thread
- + External thread on the heating circuit manifold side, suitable for the union nut of the **Multidis** heating circuit manifold
- + Thermal insulation shells available as accessories

OPTIBAL WITH DRAINING FACILITY

- + With drain valve or drain ball valve
- + Full flow
- + Nominal size DN 15 to DN 32, both sides internal thread
- + External thread on the heating circuit manifold side, suitable for the union nut of the **Multidis** heating circuit manifold
- + Thermal insulation shells available as accessories

OPTIBAL HKV

- + Suitable for **Multidis** heating circuit manifolds
- + System connection DN 20 / G ¾ or DN 25 / G 1
- + Also available with built-in thermometer
- + Internal thread on the system side
- + External thread on the heating circuit manifold side, suitable for the union nut of the **Multidis** heating circuit manifold

OPTIBAL DZR

- + Body made of dezincification resistant brass
- + Full flow
- + Nominal size DN 15 to DN 50
- + Both sides internal thread
- + With extended plastic handle, lever or T-handle
- + Thermal insulation shells available as accessories

OPTIBAL P
PUMP BALL VALVES

+ Nominal size DN 25 and DN 32
+ Internal thread and pump flange
+ Also available with check valve
+ Thermal insulation shells available as accessories

OPTIBAL PK SHUTOFF SET WITH THERMOMETER

All parts in a set

+ For connecting the boiler to the pipework
+ For installing commercially available pumps with flat sealing external thread

The set consists of:

- Pump ball valve with check valve
- Pump ball valve without check valve with red thermometer for the supply
- Ball valve with blue thermometer for the return
- Two union nuts made of nickel-plated brass
- Two flat seals for connection to the pump

OPTIBAL TW

+ Body made of lead-free, dezincification resistant brass
+ Full flow
+ Nominal size DN 15 to DN 50, both sides internal or external thread
+ Water sampling valve and thermal insulation shells available as accessories

Optibal ball valves

The product family at a glance

STANDARD BALL VALVES

HIGH TEMPERATURE BALL VALVES

			Optibal						Optibal HT
Technical data	Operating temperature [°C]		-10 ... 100						-10 ... 150 (2)
	Pressure rating		PN 16						PN 16
	Construction		Full flow						Reduced flow
Handle	Extended plastic handle		Black / Red						Black / Red
	Lever						Red		
	T-handle							Red	
	Round handle								
	Thermometer integrated			•					
Body	Material		Brass						Brass
	Surface		nickel-plated						nickel-plated
	Drain valve				•				
	Drain ball valve					•			
	Thermometer								
	Lateral connection								
	Check valve								
Accessories	Thermal insulation shells		•	•	•		• (1)	• (1)	•
	Spindle extension		•	•	•	•	•	•	•
	Conversion set to extended plastic handle						•	•	
	Cover plug, blue, for pipeline identification		•	•	•	•			•
	Thermometer conversion set		•		•				
	Blocking cap, brass								
Connection variants and item numbers	Nominal size	Connection size							
Internal thread / Internal thread	DN 8	G ¼ x G ¼					1076002		
	DN 10	G ⅜ x G ⅜	1077103	1078003			1076003	1076103	
	DN 15	G ½ x G ½	1077104	1078004	1077804	1697804	1076004	1076104	
	DN 20	G ¾ x G ¾	1077106	1078006	1077806	1697806	1076006	1076106	1078706
	DN 25	G 1 x G 1	1077108	1078008	1077808	1697808	1076008	1076108	1078708
	DN 32	G 1¼ x G 1¼	1077110	1078010	1077810	1697810	1076010	1076110	1078710
	DN 40	G 1½ x G 1½	1077112	1078012			1076012		
	DN 50	G 2 x G 2	1077116	1078016			1076016		
	DN 65	G 2½ x G 2½					1076020		
	DN 80	G 3 x G 3					1076024		
	DN 100	G 4 x G 4					1076032		
Internal thread / External thread	DN 10	G ⅜ x G ⅜	1077303				1076203	1076303	
	DN 15	G ½ x G ½	1077304				1076204	1076304	
	DN 20	G ¾ x G ¾	1077306				1076206	1076306	
		G ¾ x G 1							
	DN 25	G 1 x G 1	1077308				1076208	1076308	
	DN 32	G 1¼ x G 1¼	1077310				1076210	1076310	
	DN 40	G 1½ x G 1½	1077312						
	DN 50	G 2 x G 2	1077316						
Internal thread / Coupling	DN 15	G ½ x R ½	1075704					1075804	
	DN 20	G ¾ x R ¾	1075706					1075806	
	DN 25	G 1 x R 1	1075708					1075808	
	DN 32	G 1¼ x R 1¼	1075710					1075810	
Internal thread / Pump flange	DN 25	Rp 1 x G 1½							
	DN 32	Rp 1¼ x G 2							
		Rp 1¼ x G 1½							
Internal thread / Press connection	DN 15	G ½ x 15 mm	1077152						
		G ½ x 18 mm	1077153						
	DN 20	G ¾ x 22 mm	1077154						
	DN 25	G 1 x 28 mm	1077155						
	DN 32	G 1¼ x 35 mm	1077156						
Press connection / Press connection	DN 15	15 mm x 15 mm	1077162						
		18 mm x 18 mm	1077163						
	DN 20	22 mm x 22 mm	1077164						
	DN 25	28 mm x 28 mm	1077165						
	DN 32	35 mm x 35 mm	1077166						

Key feature of the series 1 Only together with conversion set to extended plastic handle 2 Short-term up to 180 °C 3 Not for all nominal sizes

BALL VALVES FOR HEATING CIRCUIT MANIFOLDS

BALL VALVES WITH BODY MADE OF DZR BRASS

PUMP BALL VALVES

BALL VALVES FOR POTABLE WATER

	Optibal HKV			Optibal DZR			Optibal P		Optibal PK shutoff set		Optibal TW
Technical data	Operating temperature [°C]	up to 100		-10 ... 120			up to 120				up to 90
	Pressure rating	PN 30	PN 16	PN 16	PN 30			PN 10			PN 10
	Construction		Full flow		Full flow			Reduced flow			Full flow
Handle	Extended plastic handle						Red	•	•	•	•
	Lever				Red						
	T-handle	Red	Red	Blue	–	Red					
	Round handle									•	
	Thermometer integrated									•	
Body	Material		Brass			DRZ brass			Brass		DZR brass, lead-free
	Surface		nickel-plated			untreated			nickel-plated		Untreated
	Drain valve										
	Drain ball valve										
	Thermometer		•	•							
	Lateral connection										•
	Check valve							•		•	
Accessories	Thermal insulation shells				• (1)	• (1)	•	•	•	•	•
	Aquastrom P water sampling valve				•	•	•	•	•	•	•
	Thermometer conversion set				•	•					• (3)
	Drain valve						•	•	•		
	Check valve				•	•	•				

Connection variants and item numbers	Nominal size	Connection size										
Internal thread / Internal thread	DN 15	Rp ½ x Rp ½										1078804
	DN 20	Rp ¾ x Rp ¾										1078806
	DN 25	Rp 1 x Rp 1			1079004	1079404	1079104					1078808
	DN 32	Rp 1 ¼ x Rp 1 ¼			1079006	1079406	1079106					1078810
	DN 40	Rp 1 ½ x Rp 1 ½			1079008		1079108					1078812
	DN 50	Rp 2 x Rp 2			1079010		1079110					1078816
External thread / External thread	DN 15	G ¾ x G ¾			1079012		1079112					1078904
	DN 20	G 1 x G 1			1079016		1079116					1078906
	DN 25	G 1 ¼ x G 1 ¼	1406383	1406483	1406583							1078908
	DN 32	G 1 ½ x G 1 ½	1406384	1406484	1406584							1078910
	DN 40	G 1 ¾ x G 1 ¾						1078171	1078371	1353583		1078912
	DN 50	G 2 ⅜ x G 2 ⅜						1078172	1078372	1353584		1078916
								1078173	1078373			

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Subject to technical modifications.

Room climate

Hydronics

Stations,
Storage cylinders

Potable water

Oil

Smart Home,
Smart Building

Oventrop is the partner for efficient heating, cooling and clean potable water. The modular systems and services offer pioneering solutions with which all HVAC experts can work – easily and flexibly – from planning to installation, from industry to trade. As a family business, Oventrop accompanies all its partners over many years – competently and personally.

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Wir regeln das. Seit 1851.

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