



MAGNETIC MARINE LEVEL GAUGES

On request the product is available also with
the approval certificate of Lloyd's Register

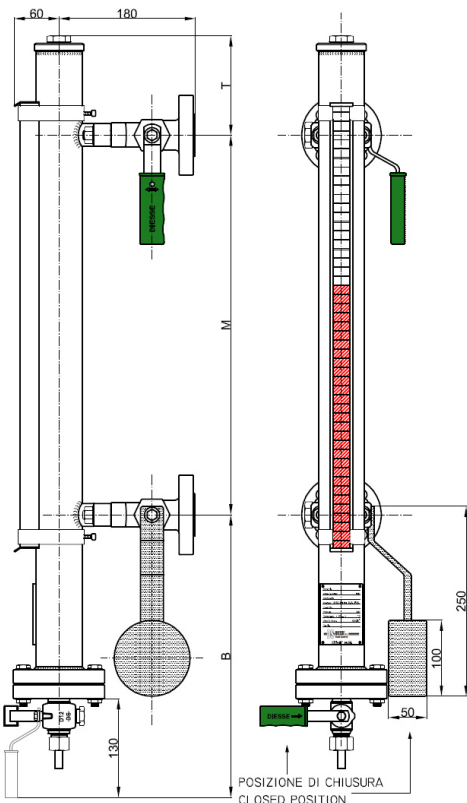
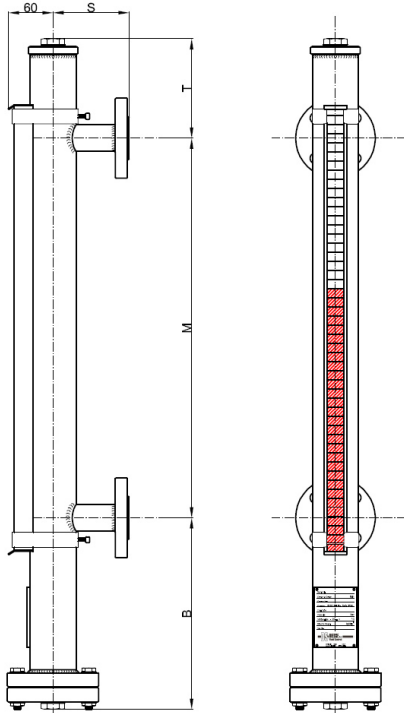


MAGNETIC LEVEL GAUGE

PN16 and PN25 / Class 150

DS MG - DS BP - SHP

Code: DS MG - DSBP - ... /16/RF - M...- SS/SS/.../SS - SHP



Technical data

Service conditions

Max Pressure: PN16 and PN25
Max temperature: 200°C and 300°C

Standard execution:

Float: Max pressure 16 bar
Pressure > 16 bar and up to 25 bar with reinforcements

Rollers: Max temperature 200°C
Temperature up to 300°C with ceramic rollers

Specific weight: $\geq 0,65 \text{ g/cm}^3$
 $< 0,65 \text{ g/cm}^3$ with special float

Application

Fluid storage tanks also aboard of ships

View

Standard: adjustable on 360° in the installation phase

Distance M (Centre-to-centre)

On request, distances up to 5.600 mm in one sole piece (Fixed distance, not adjustable)
Option: On request distances over 5.600 mm (In several pieces)

Materials (Standard)

Chamber: Stainless steel 316L ($\varnothing 60,3 \times 2 \text{ mm}$)
Float: Stainless steel 316L ($\varnothing 50 \text{ mm}$ for S.W. $\geq 1,0 \text{ g/cm}^3$)
Titanium Grade 2 ($\varnothing 50 \text{ mm}$ for S.W. $\leq 1,0 \text{ g/cm}^3$)
Process connections: Stainless steel (flanged, threaded pipes, butt weld pipes)
With cocks: Carbon steel A105 cocks or Stainless steel 316L cocks
Rollers: Brass with red and white epoxy paint, aluminium housing, glass cover (Temperature $\leq 200^\circ\text{C}$)
Blue and white ceramic, aluminium housing, glass cover (Temperature $> 200^\circ\text{C}$ up to 300°C)

Options: chamber and float in other materials; roller display housing with stainless steel cover

Gaskets

Standard: graphite/AISI 316

Options: PTFE/AISI 316

Process connections

Standard flanges:	UNI PN16/40 DN15-20-25	ANSI#150-300/RF DN 1/2" - 3/4" - 1"
Standard threaded pipes:	BSP-M 1/2" - 3/4" - 1"	NPT-M 1/2" - 3/4" - 1"
	BSP-F 1/2" - 3/4" - 1"	NPT-F 1/2" - 3/4" - 1"
Standard butt weld pipes:	BW 1/2" - 3/4" - 1"	SW 1/2" - 3/4" - 1"

Options: further connections type or connections with cocks (see details at page 2.13 and 2.14)

Vent: Standard: threaded 1/2" with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Drain: Standard: threaded 1/2" with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Process connections with shut-off cocks: (see details at page 2.13 and page 2.14)

Cocks type DS GR18: cylindrical plug type - Straight type - Quick 90° closing
Lower cock with weight closing accessory for self closing

Dimensions

B = Distance depending on the specific weight of the fluid and weight of float

T = 130 mm (Standard); Option: on request

S = 100 mm (Standard); Option: on request

Accessories

Shut-off cocks	(see details from page 2.13)
Drain cock	(see details from page 2.13)
Vent cock	(see details from page 2.13)
Calibrated scale	(see details from page 2.14)
Magnetic switches	(see details from page 2.15)
Level transmitter	(see details from page 2.23)
Control unit	(see details from page 2.27)

Weights

Magnetic level gauge: Kg. 12,0 approx. (with centre-to-centre 1.000 mm and flanges DN20 PN16)
Cocks type DS GR18 with weight closing for lower handle: Kg. 9,6 approx. (with flanges UNI DN20 PN40)

Spare parts

For routine maintenance are not necessary spare parts.

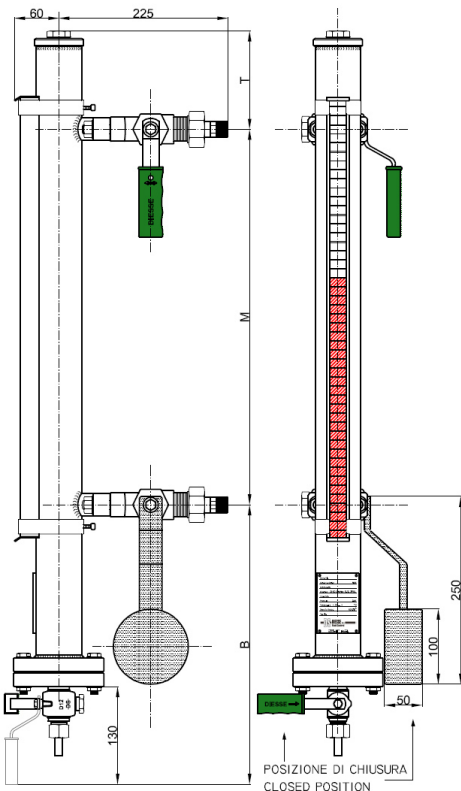
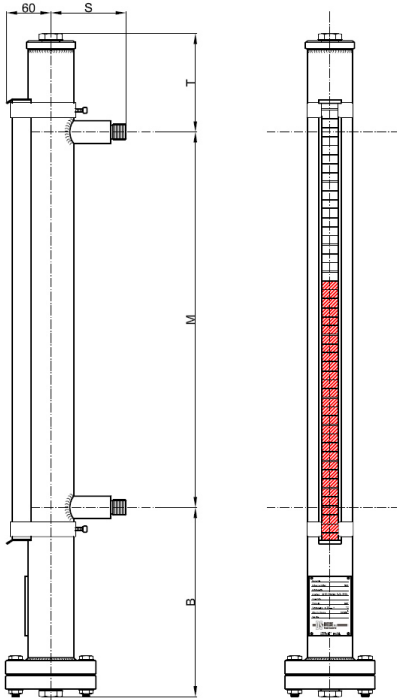
For cocks see from page 1.72 of the catalogue relative to the glass level gauges.

MAGNETIC LEVEL GAUGE

PN16 and PN25 / Class 150

DS MG - DS BP - SHP

Code: DS MG - DSBP - 1/2" GAS-M - M...-SS/SS/.../SS-SHP



Technical data

Service conditions

Max Pressure: PN16 and PN25
Max temperature: 200°C and 300°C

Standard execution:

Float: Max pressure 16 bar
Pressure > 16 bar and up to 25 bar with reinforcements

Rollers: Max temperature 200°C
Temperature up to 300°C with ceramic rollers

Specific weight: $\geq 0,65 \text{ g/cm}^3$
 $< 0,65 \text{ g/cm}^3$ with special float

Application

Fluid storage tanks also aboard of ships

View

Standard: adjustable on 360° in the installation phase

Distance M (Centre-to-centre)

On request, distances up to 5.600 mm in one sole piece (Fixed distance, not adjustable)
Option: On request distances over 5.600 mm (In several pieces)

Materials (Standard)

Chamber: Stainless steel 316L ($\varnothing 60,3 \times 2 \text{ mm}$)
Float: Stainless steel 316L ($\varnothing 50 \text{ mm}$ for S.W. $\geq 1,0 \text{ g/cm}^3$)
Titanium Grade 2 ($\varnothing 50 \text{ mm}$ for S.W. $\leq 1,0 \text{ g/cm}^3$)
Process connections: Stainless steel (flanged, threaded pipes, butt weld pipes)
With cocks: Carbon steel A105 cocks or Stainless steel 316L cocks
Rollers: Brass with red and white epoxy paint, aluminium housing, glass cover (Temperature $\leq 200^\circ\text{C}$)
Blue and white ceramic, aluminium housing, glass cover (Temperature $> 200^\circ\text{C}$ up to 300°C)

Options: chamber and float in other materials; roller display housing with stainless steel cover

Gaskets

Standard: graphite/AISI 316

Options: PTFE/AISI 316

Process connections

Standard flanges:	UNI PN16/40 DN15-20-25	ANSI#150-300/RF DN 1/2" - 3/4" - 1"
Standard threaded pipes:	BSP-M 1/2" - 3/4" - 1"	NPT-M 1/2" - 3/4" - 1"
	BSP-F 1/2" - 3/4" - 1"	NPT-F 1/2" - 3/4" - 1"
Standard butt weld pipes:	BW 1/2" - 3/4" - 1"	SW 1/2" - 3/4" - 1"

Options: further connections type or connections with cocks (see details at page 2.13 and 2.14)

Vent: Standard: threaded 1/2" with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Drain: Standard: threaded 1/2" with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Process connections with shut-off cocks: (see details at page 2.13 and page 2.14)

Cocks type DS GR18: cylindrical plug type - Straight type - Quick 90° closing
Lower cock with weight closing accessory for self closing

Dimensions

B = Distance depending on the specific weight of the fluid and weight of float
T = 130 mm (Standard); Option: on request
S = 100 mm (Standard); Option: on request

Accessories

Shut-off cocks	(see details from page 2.13)
Drain cock	(see details from page 2.13)
Vent cock	(see details from page 2.13)
Calibrated scale	(see details from page 2.14)
Magnetic switches	(see details from page 2.15)
Level transmitter	(see details from page 2.23)
Control unit	(see details from page 2.27)

Weights

Magnetic level gauge: Kg. 10,0 approx. (with centre-to-centre 1.000 mm and threads 1/2" BSP-M)
Cocks type DS GR18 with weight closing for lower handle: Kg. 7,2 approx. (with threads 1/2" BSP-M)

Spare parts

For routine maintenance are not necessary spare parts.

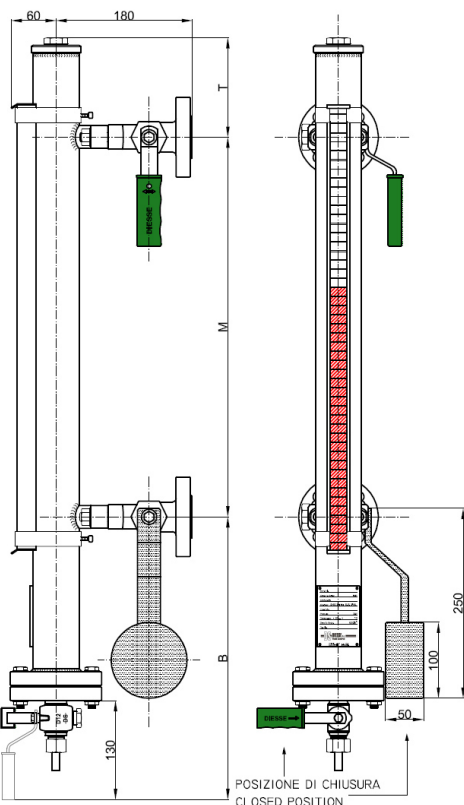
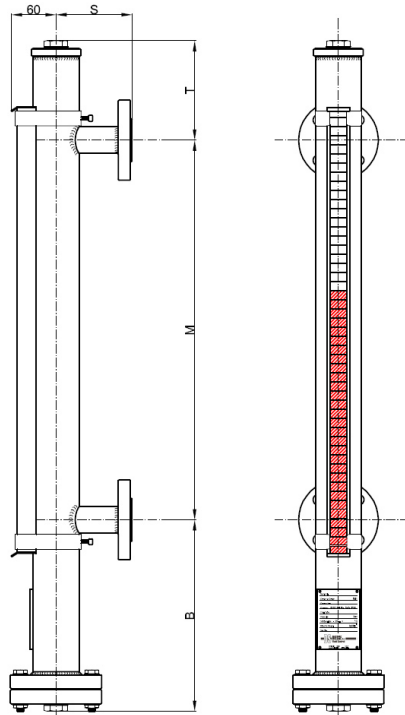
For cocks see from page 1.72 of the catalogue relative to the glass level gauges.

MAGNETIC LEVEL GAUGE

PN40 / Class 300

DS MG - DS MP - SHP

Code: DS MG - DSMP - ... /40/RF - M...- SS/SS/.../SS - SHP



Technical data

Service conditions

Max Pressure: PN40; Class 300 (49,6 bar @ 38°C)
Max temperature: 200°C and 300°C

Standard execution:

Float: Max pressure 40 bar; Class 300 (49,6 bar @ 38°C)

Rollers: Max temperature 200°C
Temperature up to 300°C with ceramic rollers

Specific weight: $\geq 0,65 \text{ g/cm}^3$
 $< 0,65 \text{ g/cm}^3$ with special float

Application

Fluid storage tanks also aboard of ships

View

Standard: adjustable on 360° in the installation phase

Distance M (Centre-to-centre)

On request, distances up to 5.600 mm in one sole piece (Fixed distance, not adjustable)
Option: On request distances over 5.600 mm (In several pieces)

Materials (Standard)

Chamber: Stainless steel 316L ($\varnothing 60,3 \times 2,77 \text{ mm}$)
Float: Stainless steel 316L ($\varnothing 50 \text{ mm}$ for S.W. $\geq 1,0 \text{ g/cm}^3$)
Titanium Grade 2 ($\varnothing 50 \text{ mm}$ for S.W. $\leq 1,0 \text{ g/cm}^3$)
Process connections: Stainless steel (flanged, threaded pipes, butt weld pipes)
With cocks: Carbon steel A105 cocks or Stainless steel 316L cocks
Rollers: Brass with red and white epoxy paint, aluminium housing, glass cover (Temperature $\leq 200^\circ\text{C}$)
Blue and white ceramic, aluminium housing, glass cover (Temperature $> 200^\circ\text{C}$ up to 300°C)
Options: chamber and float in other materials; roller display housing with stainless steel cover

Gaskets

Standard: graphite/AISI 316

Options: PTFE/AISI 316

Process connections

Standard flanges:	UNI PN40 DN15-20-25	ANSI#300-600/RF DN $\frac{1}{2}'' - \frac{3}{4}'' - 1''$
Standard threaded pipes:	BSP-M $\frac{1}{2}'' - \frac{3}{4}'' - 1''$	NPT-M $\frac{1}{2}'' - \frac{3}{4}'' - 1''$
	BSP-F $\frac{1}{2}'' - \frac{3}{4}'' - 1''$	NPT-F $\frac{1}{2}'' - \frac{3}{4}'' - 1''$
Standard butt weld pipes:	BW $\frac{1}{2}'' - \frac{3}{4}'' - 1''$	SW $\frac{1}{2}'' - \frac{3}{4}'' - 1''$

Options: further connections type or connections with cocks (see details at page 2.13 and 2.14)

Vent: Standard: threaded $\frac{1}{2}''$ with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Drain: Standard: threaded $\frac{1}{2}''$ with plug Options: On request, with flange or with cock (see details at page 2.13 and page 2.14)

Process connections with shut-off cocks: (see details at page 2.13 and page 2.14)

Cocks type DS GR18: cylindrical plug type - Straight type - Quick 90° closing
Lower cock with weight closing accessory for self closing

Dimensions

B = Distance depending on the specific weight of the fluid and weight of float
T = 130 mm (Standard); Option: on request
S = 100 mm (Standard); Option: on request

Accessories

Shut-off cocks	(see details from page 2.13)
Drain cock	(see details from page 2.13)
Vent cock	(see details from page 2.13)
Calibrated scale	(see details from page 2.14)
Magnetic switches	(see details from page 2.15)
Level transmitter	(see details from page 2.23)
Control unit	(see details from page 2.27)

Weights

Magnetic level gauge: Kg. 12,0 approx. (with centre-to-centre 1.000 mm and flanges DN20 PN40)
Cocks type DS GR18 with weight closing for lower handle: Kg. 9,6 approx. (with flanges UNI DN20 PN40)

Spare parts

For routine maintenance are not necessary spare parts.

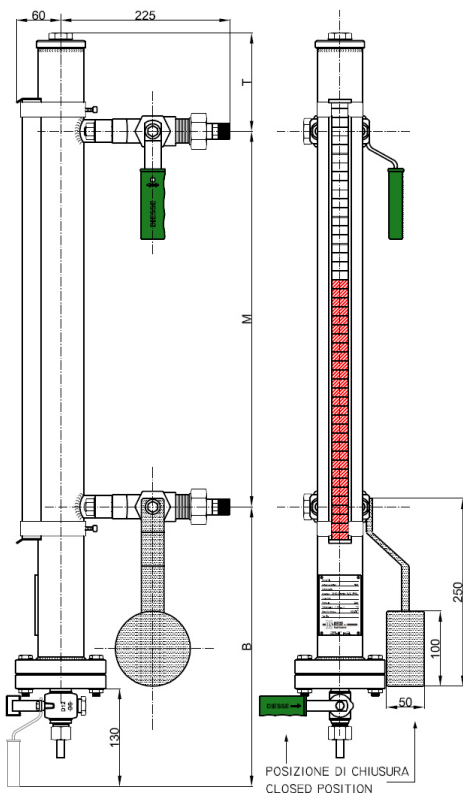
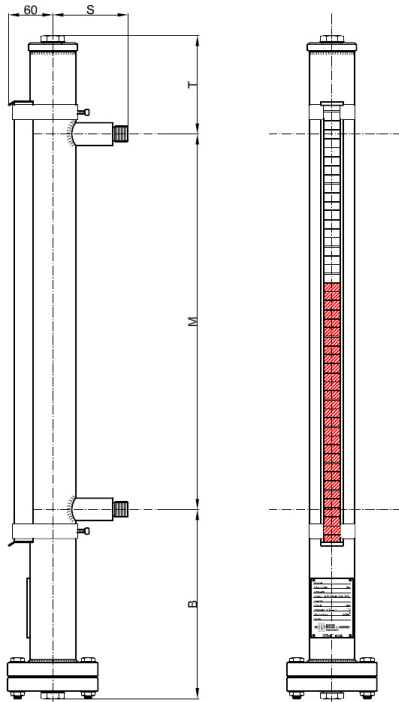
For cocks see from page 1.72 of the catalogue relative to the glass level gauges.

MAGNETIC LEVEL GAUGE

PN40 / Class 300

DS MG - DS MP - SHP

Code: DS MG - DSBP - 1/2" GAS-M - M...-SS/SS.../SS-SHP



Technical data

Service conditions

Max Pressure: PN40; Class 300 (49,6 bar @ 38°C)
Max temperature: 200°C and 300°C

Standard execution:

Float: Max pressure 40 bar; Class 300 (49,6 bar @ 38°C)

Rollers: Max temperature 200°C
Temperature up to 300°C with ceramic rollers

Specific weight: $\geq 0,65 \text{ g/cm}^3$
 $< 0,65 \text{ g/cm}^3$ with special float

Application

Fluid storage tanks also aboard of ships

View

Standard: adjustable on 360° in the installation phase

Distance M (Centre-to-centre)

On request, distances up to 5.600 mm in one sole piece (Fixed distance, not adjustable)
Option: On request distances over 5.600 mm (In several pieces)

Materials (Standard)

Chamber: Stainless steel 316L ($\varnothing 60,3 \times 2,77 \text{ mm}$)
Float: Stainless steel 316L ($\varnothing 50 \text{ mm}$ for S.W. $\geq 1,0 \text{ g/cm}^3$)
Titanium Grade 2 ($\varnothing 50 \text{ mm}$ for S.W. $\leq 1,0 \text{ g/cm}^3$)
Process connections: Stainless steel (flanged, threaded pipes, butt weld pipes)
With cocks: Carbon steel A105 cocks or Stainless steel 316L cocks
Rollers: Brass with red and white epoxy paint, aluminium housing, glass cover
(Temperature $\leq 200^\circ\text{C}$)
Blue and white ceramic, aluminium housing, glass cover
(Temperature $> 200^\circ\text{C}$ up to 300°C)
Options: chamber and float in other materials; roller display housing with stainless steel cover

Gaskets

Standard: graphite/AISI 316

Options: PTFE/AISI 316

Process connections

Standard flanges:	UNI PN40 DN15-20-25	ANSI#300-600/RF DN 1/2" - 3/4" - 1"
Standard threaded pipes:	BSP-M 1/2" - 3/4" - 1"	NPT-M 1/2" - 3/4" - 1"
	BSP-F 1/2" - 3/4" - 1"	NPT-F 1/2" - 3/4" - 1"
Standard butt weld pipes:	BW 1/2" - 3/4" - 1"	SW 1/2" - 3/4" - 1"

Options: further connections type or connections with cocks (see details at page 2.13 and 2.14)

Vent: Standard: threaded 1/2" with plug Options: On request, with flange or with cock
(see details at page 2.13 and page 2.14)

Drain: Standard: threaded 1/2" with plug Options: On request, with flange or with cock
(see details at page 2.13 and page 2.14)

Process connections with shut-off cocks: (see details at page 2.13 and page 2.14)

Cocks type DS GR18: cylindrical plug type - Straight type - Quick 90° closing
Lower cock with weight closing accessory for self closing

Dimensions

B = Distance depending on the specific weight of the fluid and weight of float
T = 130 mm (Standard); Option: on request
S = 100 mm (Standard); Option: on request

Accessories

Shut-off cocks	(see details from page 2.13)
Drain cock	(see details from page 2.13)
Vent cock	(see details from page 2.13)
Calibrated scale	(see details from page 2.14)
Magnetic switches	(see details from page 2.15)
Level transmitter	(see details from page 2.23)
Control unit	(see details from page 2.27)

Weights

Magnetic level gauge: Kg. 10,0 approx. (with centre-to-centre 1.000 mm and threads 1/2" BSP-M)
Cocks type DS GR18 with weight closing for lower handle: Kg. 7,2 approx. (with thread 1/2" BSP-M)

Spare parts

For routine maintenance are not necessary spare parts.

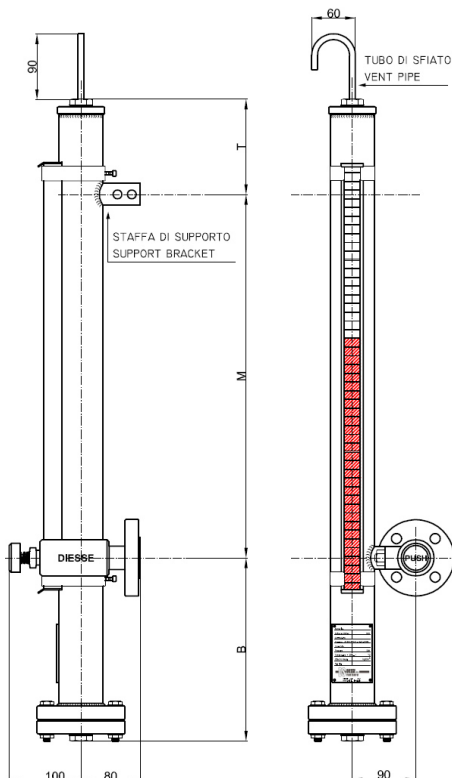
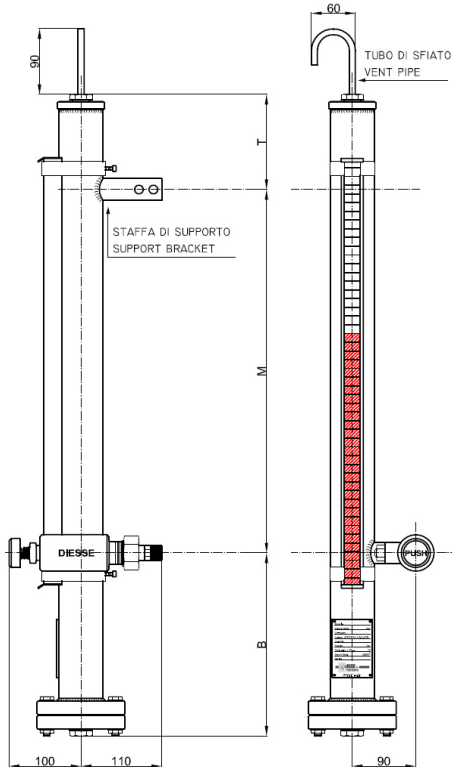
For cocks see from page 1.72 of the catalogue relative to the glass level gauges.

MAGNETIC LEVEL GAUGE

PN16

DS MG - DS BP - NPV - SHP

Code: DS MG-DSBP-... /16/RF-M...- SS/SS/.../SS-NPV- SHP



Technical data

Service conditions

Max Pressure: PN16
Max temperature: 150°C

Standard execution:

Specific weight: $\geq 0,65 \text{ g/cm}^3$
 $< 0,65 \text{ g/cm}^3$ with special float

Application

Fluid storage tanks also aboard of ships

View

Standard: adjustable on 360° in the installation phase

Distance M (Centre-to-centre)

On request, distances up to 5.600 mm in one sole piece (Fixed distance, not adjustable)
Option: On request distances over 5.600 mm (In several pieces)

Materials (Standard)

Chamber: Stainless steel 316L ($\varnothing 60,3 \times 2 \text{ mm}$)
Float: Stainless steel 316L ($\varnothing 50 \text{ mm}$ for S.W. $\geq 1,0 \text{ g/cm}^3$)
Titanium Grade 2 ($\varnothing 50 \text{ mm}$ for S.W. $\leq 1,0 \text{ g/cm}^3$)
Process connection: Self closing valve type DS NPV, push button type in Carbon steel
A105 galvanized or Stainless steel 316L
Rollers: Brass with red and white epoxy paint, aluminium housing, glass cover
Options: chamber and float in other materials; roller display housing with stainless steel cover

Gaskets

Standard: graphite/AISI 316

Options: PTFE/AISI 316

Self-closing Valve

Type DS NPV: self-closing, push button type

Handling: opening by push button (Standard: valve on the right side; On request on the left side)

Process connection:

Standard flange: UNI PN16 DN15-20-25 ANSI#150/RF DN $\frac{1}{2}$ " - $\frac{3}{4}$ " - 1"
Standard threaded union: BSP-M $\frac{1}{2}$ " - $\frac{3}{4}$ " NPT-M $\frac{1}{2}$ " - $\frac{3}{4}$ "

Option: further connection types

Vent: Standard: threaded $\frac{1}{2}$ " with vent pipe

Option: on request (see details at page 1.52)

Drain: Standard: threaded $\frac{1}{2}$ " with plug

Option: on request (see details at page 1.52)

Dimensions

B = Distance depending on the specific weight of the fluid and weight of float
T = 130 mm (Standard); Option: on request

Accessories

Shut-off cocks (see details from page 2.13)
Drain cock (see details from page 2.13)
Vent cock (see details from page 2.13)
Calibrated scale (see details from page 2.14)
Magnetic switches (see details from page 2.15)
Level transmitter (see details from page 2.23)
Control unit (see details from page 2.27)

Weights

Magnetic level gauge: Kg. 13,5 approx. (with centre-to-centre 1.000 mm and valve type DS NPV flanged DN20 PN16)

Spare parts

For routine maintenance are not necessary spare parts.

For valve type DS NPV: see from page 1.74 (drawing with components and parts list see page 1.67) of the catalogue relative to the glass level gauges.