

## cylindrical plug cocks

- TYPE DS D12
- TYPE DS D18
- TYPE DS PM18

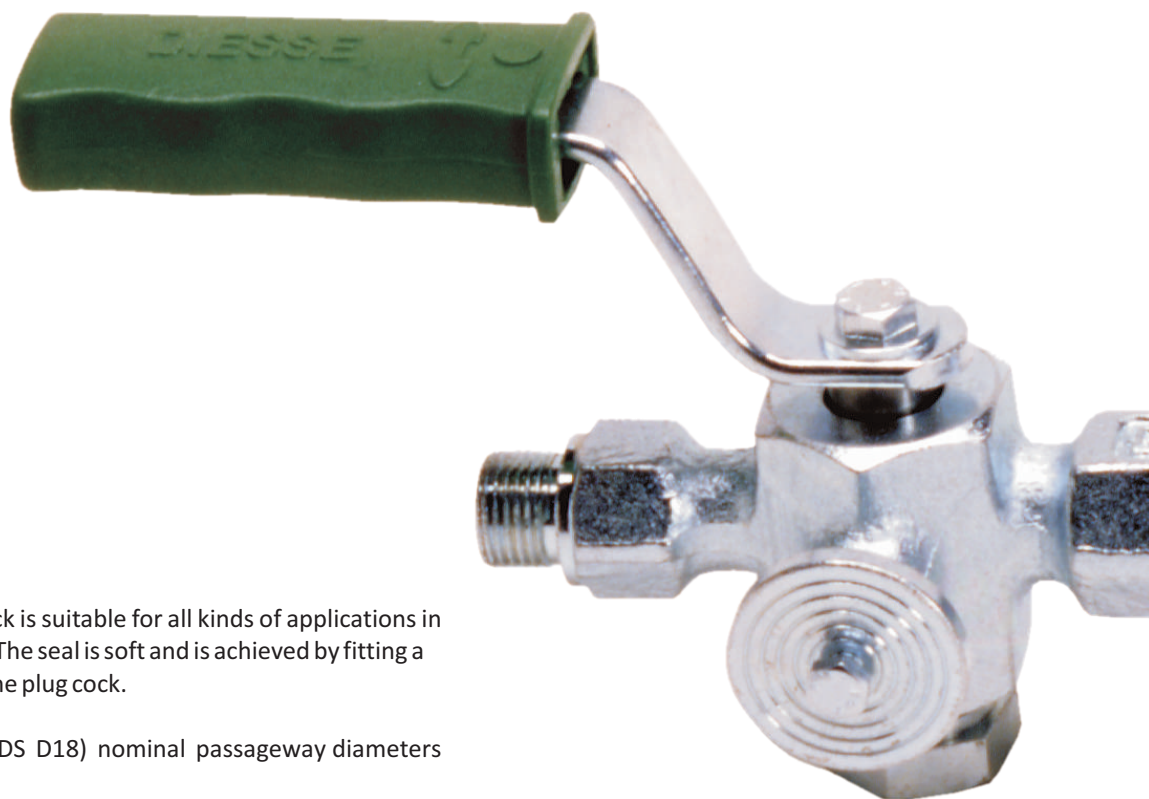
Two ways cylindrical plug cock type DS D12



Two ways cylindrical plug cock type DS D18



Three way cylindrical plug manometer setting valve with control flange type DS PM18



The DIESE cylindrical plug cock is suitable for all kinds of applications in a number of different sectors. The seal is soft and is achieved by fitting a case between the vessel and the plug cock.

6 mm (DS D12) and 8 mm (DS D18) nominal passageway diameters are available.

The DIESE manometer setting valve is a three way cylindrical plug cock with control flange (DS PM18) is soft sealing and the ideal product for securely fitting a manometer.

The cock has a flanged connection for this purpose, which must be screwed in so that no loss occurs as a result of incorrect operation (when a control manometer is not connected).

## Code

1	Type					
	DS D12	Two way cylindrical plug cock with 6 mm bore				
	DS D18	Two way cylindrical plug cock with 8 mm bore				
	DS PM18	Three way cylindrical plug manometer setting valve with control flange				
2	Process connections					
	Pos. 1: Nominal size 1/4" or 3/8" or 1/2"		Pos. 2: Finitura filetto BSP (GAS) or NPT		Pos. 3: Pressione nominale PN40 or PN160	
3	Materials					
	Pos. 1: Wetted parts		Pos. 2: Non-wetted parts		Pos. 3: Gaskets	
	CS	Carbon steel ASTM A105 galvanized	CS	Carbon steel galvanized	Standard	Graphite
	LF2	Carbon steel A105 LF2 galvanized	SS	Stainless steel AISI 316	PF	PTFE
	SS	Stainless steel AISI 316L				

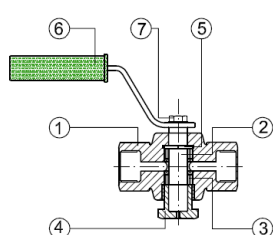
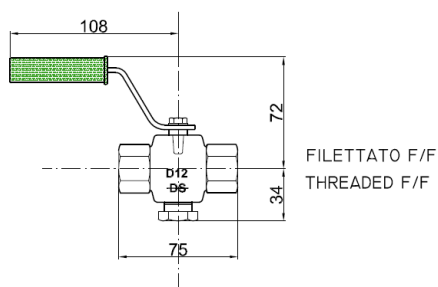
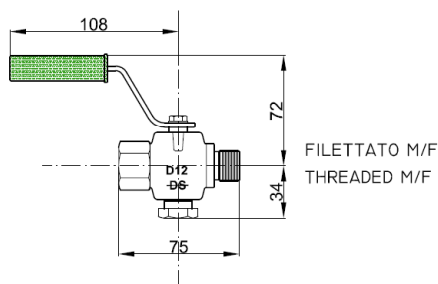
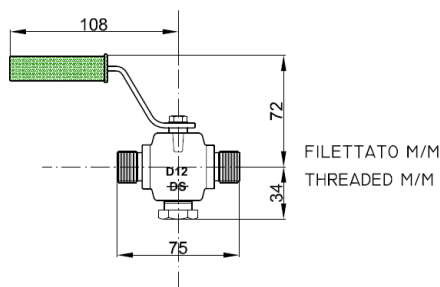
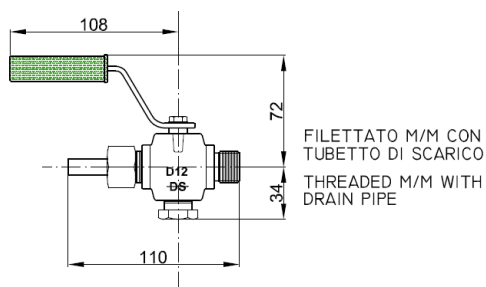
Code	1	2	3
E.g.	DS D12	1/2"/BSP/MM/40	CS/CS

## CYLINDRICAL PLUG COCK

PN40 and PN160

DS D12

Code: DS D12 - .../.../40 - CS/CS



### Technical data

#### Service conditions

Max Pressure: PN40 (Standard)  
PN160 (On request) with high pressure sealing  
Max Temperature: 300°C with graphite sealing  
400°C (On request) with high temperature sealing

#### Description

The DIESSE cylindrical plug cock DS D12 is suitable for all kinds of applications in a number of different sectors.  
The seal is soft and is achieved by fitting a case between the vessel and the plug cock.  
It is also fitted as drain and/or vent cock on the glass level gauge gauges DS LG and on magnetic ones DS MG.

#### Handling

Quick 90° opening/closing

#### Materials (Standard)

Execution:	CS/CS	SS/CS	SS/SS
Body:	ASTM A105	AISI 316L	AISI 316L
Trim:	AISI 303	AISI 316	AISI 316
Stuffing box:	Carbon steel galvanized	Carbon steel galvanized	AISI 316
Handle:	Carbon steel galvanized	Carbon steel galvanized	AISI 316
Handle cover:	PP	PP	PP
Bolt and washer:	Carbon steel galvanized	Carbon steel galvanized	Stainless steel

#### Nominal passageway diameter

ND: 6 mm

#### Gasket

Standard: graphite case with passageway rings in stainless steel 316  
Option: PTFE case with passageway rings in stainless steel 316

#### Process connections

##### Type:

F x F - threaded female / female  
M x F - threaded male / female  
M x M - threaded male / male (1/2" BSP: Standard execution with drain pipe)

#### Threaded connections type (Standard):

BSP (GAS) 1/4" - 3/8" - 1/2"  
NPT 1/4" - 3/8" - 1/2"

Options: flanged connections types or welding type

#### Weight

Cock DS D12: Kg. 0,5 approx.

#### Spare parts

Case with 2 holes: see page 1.72

#### Operating instructions

When starting the installation or after the case (3) replacement, before opening the cock, wait until the instrument reaches the room temperature.  
After the opening, should any leakage occur, softly tighten the stuffing box (4) several times until the leakage stop.

#### Instructions for the case removal and replacement

##### Assumptions:

- The replacement of the cock case requires such specific devices and tools that operations by personnel not specifically trained to do so is not advisable
- The cock has been designed so that dismantling is possible solely by means of specific tools in order to avoid the opening of its part by accident

In the case where the customer decides to proceed with his own personnel and tools for maintenance operations, it is **IMPORTANT**:

- To envision a skill operator with good technical and maintenance knowledge
- To contact the manufacturer for the best way to proceed and the suitable spare parts
- To be sure that operators wear appropriate individual personal protective means, and all necessary precautions are taken to avoid accidents

**Before starting any operation wait until the instrument reach the room temperature.**

**Before disassembling be sure that the pipe is not under pressure.**

- 1) Screw off the stuffing box (4) and the handle bolt (7)
- 2) Remove the handle (6)
- 3) To extract the cylindrical plug (2), by a soft extension (best a wooden one) gently beat on it several times paying attention that it does not fall off.  
Any scrape would compromise the cock sealing.
- 4) Clean the components with no-abrasive substances

##### Assembling:

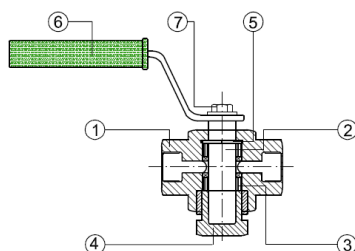
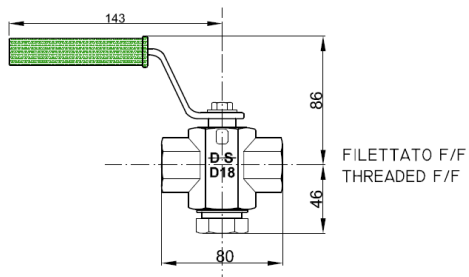
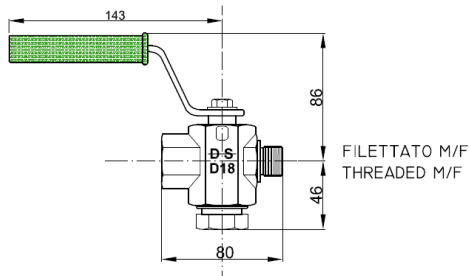
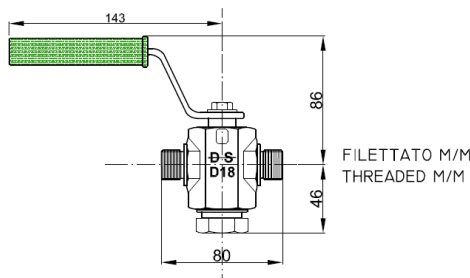
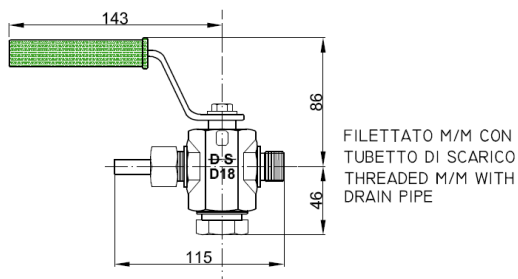
- 1) Insert the cylindrical plug (2) into the case (3) until it blocks against the split ring (5)
- 2) Insert the case (3) in the cock body (1) utilising the guide
- 3) Fix the handle (6) and gently tighten the stuffing box (4)

## CYLINDRICAL PLUG COCK

PN40 and PN160

DS D18

Code: DS D18 - .../.../40 - CS/CS



### Technical data

#### Service conditions

Max Pressure: PN40 (Standard)  
PN160 (On request) with high pressure sealing  
Max Temperature: 300°C with graphite sealing  
400°C (On request) with high temperature sealing

#### Description

The DIESSE cylindrical plug cock DS D18 is suitable for all kinds of applications in a number of different sectors.

The seal is soft and is achieved by fitting a case between the vessel and the plug cock.

#### Handling

Quick 90° opening/closing

#### Materials (Standard)

Execution: CS/CS  
Body: ASTM A105  
Trim: AISI 303  
Stuffing box: Carbon steel galvanized  
Handle: Carbon steel galvanized  
Handle cover: PP  
Bolt and washer: Carbon steel galvanized

Option: different materials available

#### Nominal passageway diameter

ND: 8 mm

#### Gasket

Standard: graphite case with passageway rings in stainless steel 316

Option: PTFE case with passageway rings in stainless steel 316

#### Process connections

##### Type:

F x F - threaded female / female  
M x F - threaded male / female  
M x M - threaded male / male (1/2" BSP: Standard execution with drain pipe)

#### Threaded connections type (Standard):

BSP (GAS) 1/2"  
NPT 1/2"

Options: flanged connections types or welding type

#### Weight

Cock DS D18: Kg. 0,9 approx.

#### Spare parts

Case with 2 holes: see page 1.72

#### Operating instructions

When starting the installation or after the case (3) replacement, before opening the cock, wait until the instrument reaches the room temperature.

After the opening, should any leakage occur, softly tighten the stuffing box (4) several times until the leakage stop.

#### Instructions for the case removal and replacement

##### Assumptions:

- The replacement of the cock case requires such specific devices and tools that operations by personnel not specifically trained to do so is not advisable
- The cock has been designed so that dismantling is possible solely by means of specific tools in order to avoid the opening of its part by accident

In the case where the customer decides to proceed with his own personnel and tools for maintenance operations, it is **IMPORTANT**:

- To envision a skill operator with good technical and maintenance knowledge
- To contact the manufacturer for the best way to proceed and the suitable spare parts
- To be sure that operators wear appropriate individual personal protective means, and all necessary precautions are taken to avoid accidents

**Before starting any operation wait until the instrument reach the room temperature.**

**Before disassembling be sure that the pipe is not under pressure.**

- 1) Screw off the stuffing box (4) and the handle bolt (7)
- 2) Remove the handle (6)
- 3) To extract the cylindrical plug (2), by a soft extension (best a wooden one) gently beat on it several times paying attention that it does not fall off.  
Any scrape would compromise the cock sealing.
- 4) Clean the components with no-abrasive substances

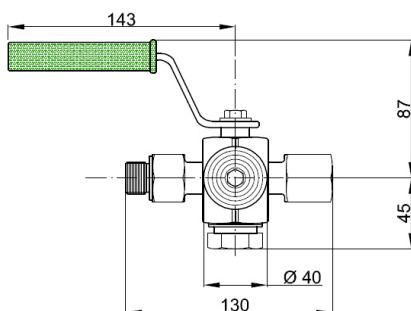
##### Assembling:

- 1) Insert the cylindrical plug (2) into the case (3) until it blocks against the split ring (5)
- 2) Insert the case (3) in the cock body (1) utilising the guide
- 3) Fix the handle (6) and gently tighten the stuffing box (4)

## CYLINDRICAL PLUG MANOMETER SETTING VALVE PN40

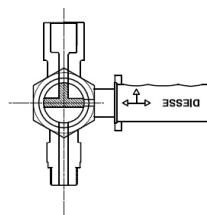
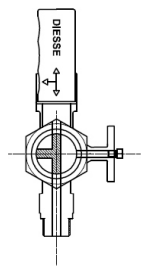
### DS PM18

Code: DS PM18 - .../.../.../40 - CS/CS



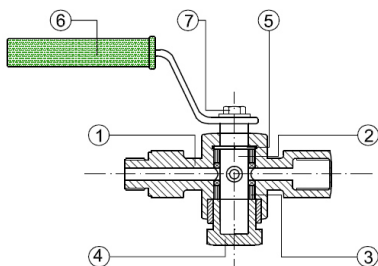
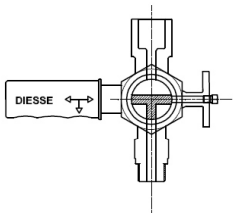
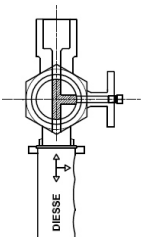
POSIZIONE OPERATIVA  
WORKING POSITION

POSIZIONE DI CHIUSURA  
SHUT-OFF POSITION



POSIZIONE DI PROVA  
TEST POSITION

POSIZIONE DI SFIATO  
VENT POSITION



#### Technical data

##### Service conditions

Max Pressure: PN40  
Max Temperature: 300°C

##### Description

The DIESSE manometer setting valve DS PM18 is a cylindrical plug cock with control flange. It is suitable for the manometers installation. It has a little flange provided with a screw that avoids losses when a control manometer is not connected. The seal is soft and is achieved by fitting a case between the vessel and the plug cock.

##### Handling

Quick 90° opening/closing

##### Materials (Standard)

Execution:	CS/CS
Body:	ASTM A105
Trim:	AISI 303
Stuffing box:	Carbon steel galvanized
Handle:	Carbon steel galvanized
Handle cover:	PP
Bolt and washer:	Carbon steel galvanized

Option: different materials available

##### Nominal passageway diameter

ND: 8 mm

##### Nominal passageway diameter for control manometer

ND: 5 mm

##### Gasket

Standard: graphite case with passageway rings in stainless steel 316  
Option: PTFE case with passageway rings in stainless steel 316

##### Process connections

###### Type:

M x F - threaded male / female

##### Threaded connections type (Standard):

BSP (GAS) 3/8" - 1/2"

Options: connections NPT threaded, welding type or flanged type

##### Weight

Cock DS PM18: Kg. 1,2 approx.

##### Spare parts

Case with 3 holes: see page 1.72

##### Operating instructions

When starting the installation or after the case (3) replacement, before opening the cock, wait until the instrument reaches the room temperature.

After the opening, should any leakage occur, softly tighten the stuffing box (4) several times until the leakage stop.

##### Instructions for the case removal and replacement

###### Assumptions:

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Any scrape would compromise the cock sealing.
- 4) Clean the components with no-abrasive substances

###### Assembling:

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