

AIR BREATHER FILTERS



The comprehensive series of breather filters makes it possible to meet all market demands. Metal and plastic styles suitable for use on mobile equipment are available.

The function of breather filters is to intercept environmental contamination.

The correct use of breather filters ensures longer life of filter cartridges installed in the hydraulic circuit, and in applications where high level of contamination are present.

The use of breather filters calls for the simultaneous installation of plugs for filling and topping up fluids; it is recommended to use plugs complete with strainer for correct prefiltration of the fluid. If the filler plug is equipped with a filter, the filtration degree must be the same as that of the breather filter.

Temperature

- from -25° to +100°C

Compatibility

- NBR seals and Cork Gasket, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
Synthetic fluids, glycol water.
- FPM seals, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU.

Ordering information

TA46G-N...P01

With filter



Flow rate with Δp : 0,02 bar

Filtration	l/min
3 μm	150
10 μm	200

Weight

TA 46: 0,110 kg

Breather filter 1 2 3
TA46
Example: TA46 G 03 P01

1 - Connection to reservoir

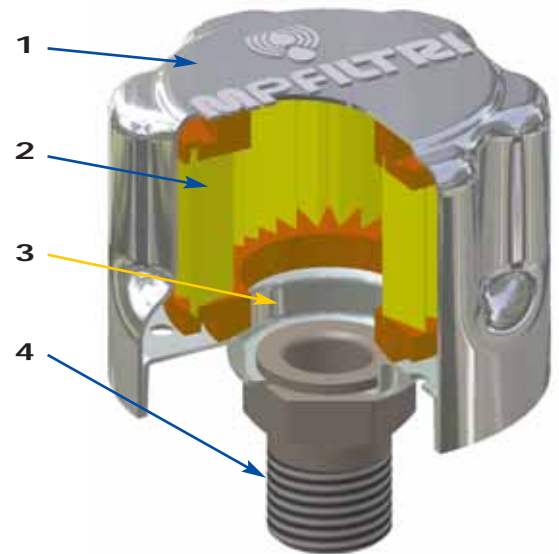
<input type="checkbox"/> G	G 1/4"
<input type="checkbox"/> N	1/4" NPT

3 - Options

P01 MP Standard

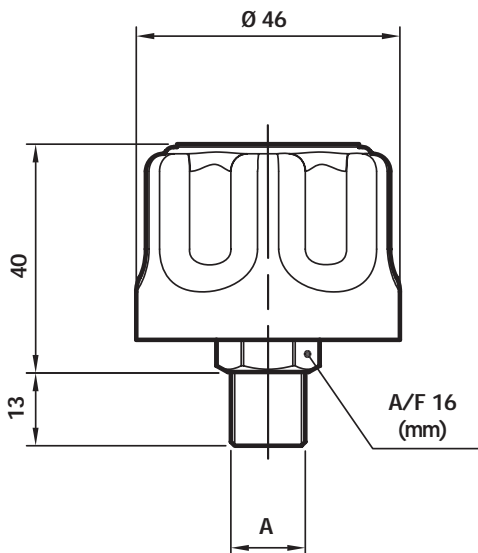
2 - Filter element

<input type="checkbox"/> 03	3 μm
<input type="checkbox"/> 10	10 μm



Dimensions

Threaded connection



Connection	A
G	G 1/4"
N	1/4" NPT

TA46 G - N (Materials)

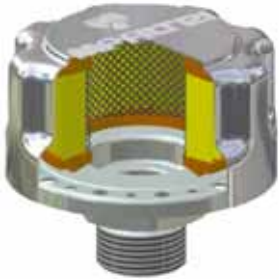
- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane/Stainless steel
- 3 - Flange: Galvanised Steel
- 4 - Threaded connection: Phosphated Steel

Series TA 80

Ordering information

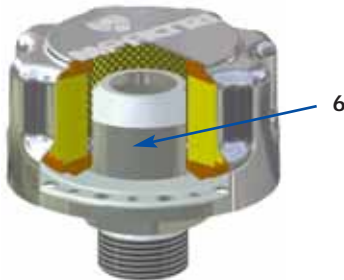
TA80G.....P01

With filter



TA80G03.9P01

With anti-slosh feature



TA80G...A...P01

With filter and pressurisation valve



Breather filter
TA80

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Example: TA80 G 03 A 1 P01

1 - Connection to reservoir

G	G 3/4"
N	3/4" NPT

5 - Options

P01	MP Standard
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2 - Filter element

03	3 µm
10	10 µm

3 - Seal

0	Without
A	NBR (pressurised only)

4 - Valves

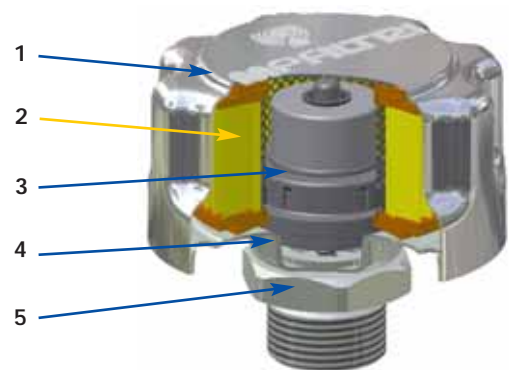
0	Without
1	0.3 bar pressurisation valve
2	0.7 bar pressurisation valve
9	Anti-slosh feature (only with filter element 3 µm)

Flow rate with Δp : 0,02 bar

Filtration	l/min
3 µm	450
10 µm	550

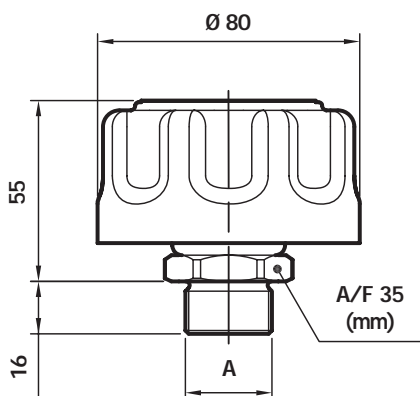
Weight
 TA 80: 0,350 Kg

TA80



Dimensions

Threaded connection



Connection	A
G	G 3/4"
N	3/4" NPT

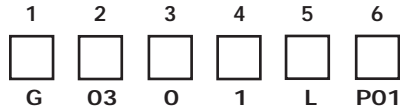
TA80 G (Materials)

- 1 - Cover: Chrome plated steel
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane
- 3 - Pressurisation valve: Nylon
Galvanised Steel
NBR
- 4 - Flange: Galvanised Steel
- 5 - Threaded connection: Galvanised Steel
- 6 - Anti-slosh feature: Galvanised Steel

Ordering information

Air breathers
TAP90

Example: TAP90



1 - Connection to reservoir

G	M52x2
H	G 1 1/2"
L	G 1 1/4"
M	3/4" NPT
N	1" NPT
Q	G 3/4"

4 - Pressurisation valve

0	Without
1	0.3 bar pressurisation valve
2	0.7 bar pressurisation valve

5 - Variants

O	Standard
A	With Dipstick
L	With Padlock Hasp
F	With Dipstick and Padlock Hasp

2 - Filter element

03	3 µm
10	10 µm

3 - Seal

O	Without
A	NBR

6 - Options

P01	MP Standard
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TAP 90 G
With filter



TAP90 (Materials)

- 1 - Cover/ringnut: Nylon
- 2 - Breather filter: Resin impregnated cellulose
Polyurethane
- 3 - Seal: NBR

Flow rate with Δp: 0,02 bar

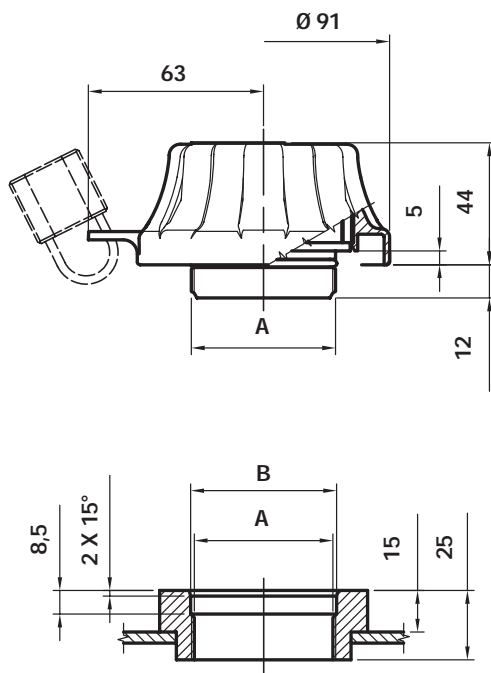
Filtration	l/min
3 µm	450
10 µm	550

Weight

TAP 90: 0,130 Kg

Dimensions

TAP 90 for connection on weld flange



	A	B
G	M52x2	Ø 52,5
H	G 1 1/2"	Ø 48,5
L	G 1 1/4"	Ø 42
M	3/4" NPT	-
N	1" NPT	-
Q	G 3/4"	-

TAP G
With Pressurisation



TAP G
With Dipstick



SAP

Series

054 - 075

SAP 054 - 075



SAP 054 - 075 (Materials)

- 1 - Cover: Nylon
- 2 - Connection: Nylon
- 3 - Filter element: Resin impregnated cellulose

Flow rate with Δp : 0,02 bar

Filtration	l/min
SAP 054	
3 μ m	200
10 μ m	250
SAP 075	
3 μ m	350
10 μ m	400

Weights

SAP 054: 0,060 Kg
SAP 075: 0,150 Kg

Ordering information

Breather filter	1	2	3	4	5
SAP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Example: SAP	075	G4	L10	A	PO1

Filter element	1	3
Example:	A7	L10

1 - Size

Filter	Filter element
<input type="checkbox"/> 054	<input type="checkbox"/> A4
<input type="checkbox"/> 075	<input type="checkbox"/> A7

3 - Filter element

<input type="checkbox"/> L03	Resin impregnated cellulose 3 μ m
<input type="checkbox"/> L10	Resin impregnated cellulose 10 μ m

2 - Connessione al serbatoio

	SAP 054	SAP 075
<input type="checkbox"/> G1	G 3/8"	G 1/2"
<input type="checkbox"/> G2	G 1/2"	G 3/4"
<input type="checkbox"/> G3	-	-
<input type="checkbox"/> G4	1/2" NPT	1/2" NPT
<input type="checkbox"/> G5	-	3/4" NPT

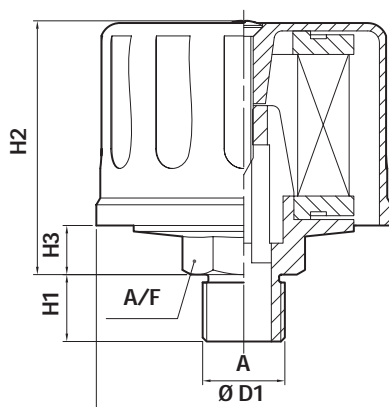
4 - Seal

<input type="checkbox"/> A	NBR
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5 - Opzioni

<input type="checkbox"/> PO1	MP Filtri
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Dimensions



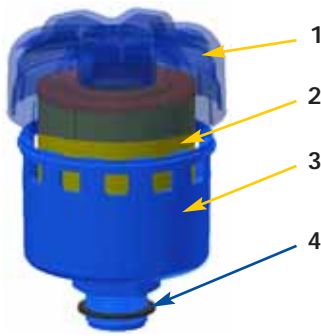
Connection to reservoir " A "

Type SAP	G1	G2	G3	G4	G5
054	G 3/8"	G 1/2"	-	1/2" NPT	-
075	G 1/2"	G 3/4"	-	1/2" NPT	3/4" NPT

Dimensions

Type SAP	D1	H1	H2	H3	A/F (mm)
054 G1	54	13,5	51	8	22
054 G2					27
054 G4					27
075 G1	75	17	64	9	32
075 G2					27
075 G4					27
075 G5					32

Nylon breather filter



SAP115 (Materials)

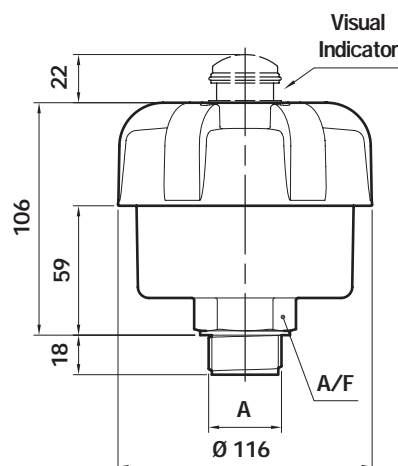
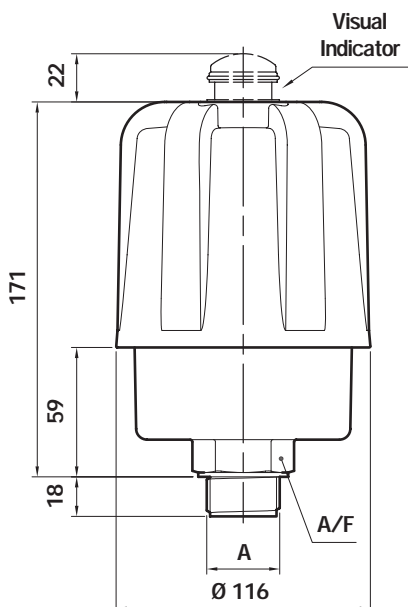
- 1 - Cover: Nylon
- 2 - Breather filter: Resin impregnated cellulose
Inorganic microfibre
- 3 - Connection: Nylon
- 4 - Seals: NBR
FPM



Clogging indicator

Set pressure: - 0.062 bar ± 10 %

Manual reset



Series SAP 115

Ordering information

Breather filter SAP115

Example: SAP115

Filter element A115

Example: A115

1 - Length

1
2

2 - Connection

A	G 1"
B	M33x2
C	G 1 1/2"

3 - Filter element

L10	Resin impregnated cellulose 10 µm
A03	Inorganic microfibre 3 µm

4 - Seals

A	NBR
V	FPM

1	2	3	4	5	6	7
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	A	A03	A	1	B	P01
1	3	7				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
2	A03	P01				

5 - Variants

0	Without
1	With anti-slosh feature

6 - Indicator

A	Without
B	Visual indicator

7 - Options

P01	MP Standard
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Flow rate with Δp: 0,02 bar

TYPE	Flitration	I/min	
		SAP 115 1	SAP 115 2
G 1"	L10	2170	2800
	A03	1830	2800
G 1 1/2"	L10	2330	3000
	A03	1995	3000

Weight

SAP 115 1: 0,410 Kg
SAP 115 2: 0,525 Kg

Dimensions

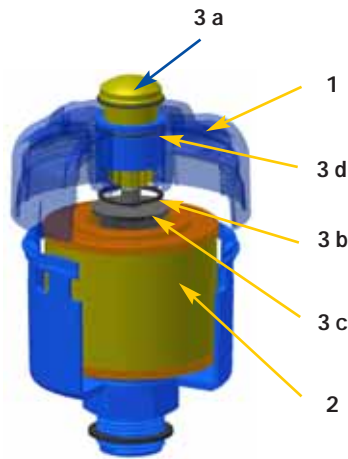
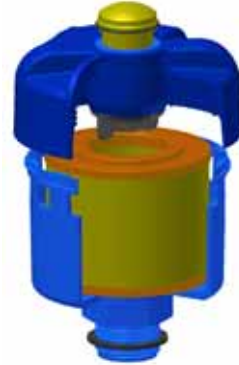
Connection	A	A/F (mm)
A	G 1"	41
B	M33x2	41
C	G 1 1/2"	55

Changing the filter element in breather filters series SAP 115

1 Thoroughly clean the plug and adjacent parts.

2 Unscrew and raise the cover.

3 Renew the filter element and screw the cover fully home into the cartridge (DO NOT OVER TIGHTEN).

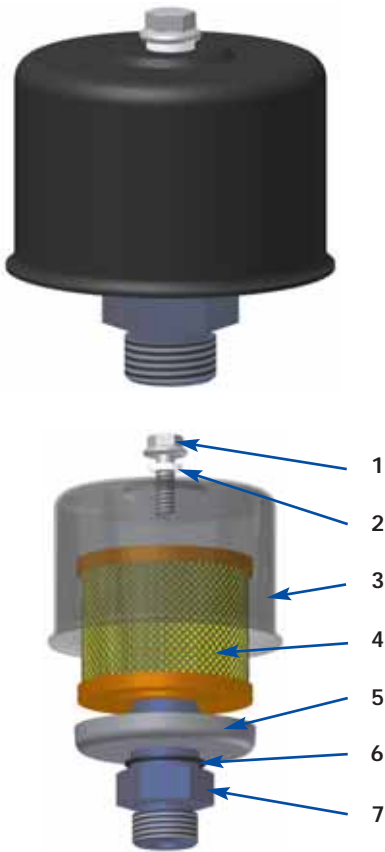


SAP 115 spare parts

Pos.	Description	Q.ty	Plug series SAP 115	
1	Complete plug	1	See order table	
2	Filter Element	1	See order table	
3	Indicator Kit	1	NBR 02005187	FPM 02005188
3a	Visual indicator	1	S62P01	
3b	Seal	1	O-R 3106 Ø 26,64 X 2,62	
3c	Indicator securing screw	1	01022670	
3d	O-R indicator	1	OR 2112 Ø 28,3 x 1,78	

SA

Ordering information



SA (Materials)

- 1 - Screw: Galvanised Steel
- 2 - Washer: Teflon
- 3 - Cover: Steel
- 4 - Filter element: Plastisol
Galvanised steel mesh
Resin impregnated cellulose
- 5 - Ring: Galvanised Steel
- 6 - Seal: NBR
- 7 - Connection: Anodised Aluminium
Galvanised Steel

Breather filter
SA
Example: SA

Filter element
Example:

1 - Size

Filter
036
053
075
115
145
185

Filter element

Filter element
A05
A5
A7
A8
A10
A11

3 - Filter element

L03	Resin impregnated cellulose 10 µm (O36 excluded)
L10	Resin impregnated cellulose 10 µm
S	Without

4 - Seal

A	NBR
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5 - Options

P01	MP Standard
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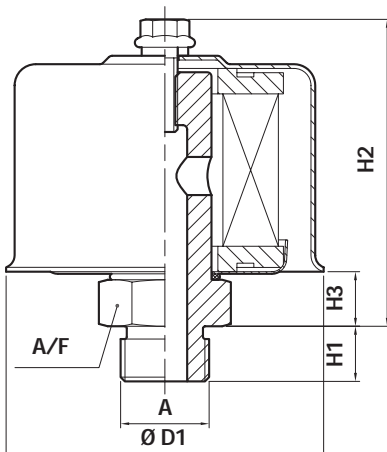
2 - Connection to reservoir

Type	G1	G2	G3	G4	G5	G6
036	G 1/4"	G 3/8"	G 1/2"	1/4" NPT	3/8" NPT	1/2" NPT
053	G 1/4"	G 3/8"	-	1/4" NPT	3/8" NPT	-
075	G 1/2"	G 3/4"	-	1/2" NPT	3/4" NPT	-
115	G 1"	-	-	1" NPT	-	-
145	G 1 1/2"	-	-	1 1/2" NPT	-	-
185	G 2 1/2"	-	-	2 1/2" NPT	-	-

Connection to reservoir " A "

Type	G1	G2	G3	G4	G5	G6	Weight (Kg)
036	G 1/4"	G 3/8"	G 1/2"	1/4" NPT	3/8" NPT	1/2" NPT	0,080
053	G 1/4"	G 3/8"	-	1/4" NPT	3/8" NPT	-	0,150
075	G 1/2"	G 3/4"	-	1/2" NPT	3/4" NPT	-	0,260
115	G 1"	-	-	1" NPT	-	-	0,400
145	G 1 1/2"	-	-	1 1/2" NPT	-	-	0,590
185	G 2 1/2"	-	-	2 1/2" NPT	-	-	1,220

Dimensions

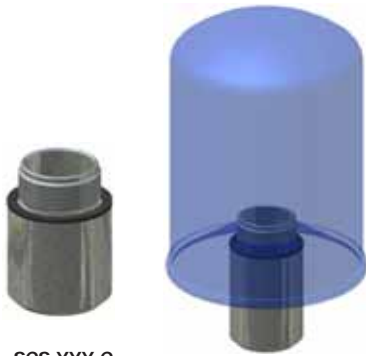


Dimension

Type	D1	H1	H2	H3	A/F (mm)
036	36	13	36,5	9	22
053	53	13	52,5	7	22
075 G1		13			27
075 G2	75	17	68,5	11,5	32
075 G4		15			27
075 G5		20			32
115	115	17	80	11	38
145	145	25	115	13	55
185	185	25	164	23	80

Flow rate with Δp: 0,02 bar

Type	3 µm l/min	10 µm l/min
036	-	140
053	250	250
075	350	400
115	800	850
145	1800	1850
185	5300	5500



SCS XXX C



SCS XXX F

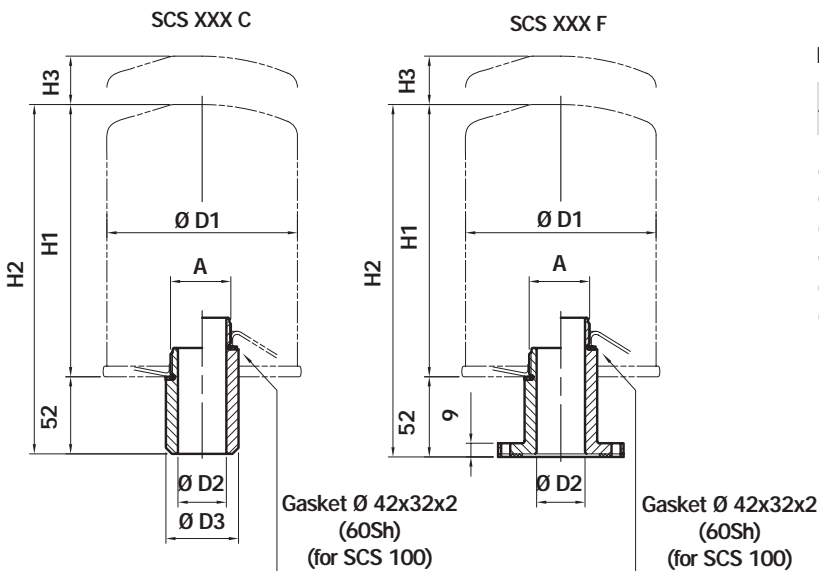
Flow rate with Δp : 0,02 bar

Type	Filtration l/min	
SCS 050	P10	550
	A03	515
	A10	530
SCS 070	P10	550
	A03	515
	A10	530
SCS 100	P10	1415
	A03	1300
	A10	1330
SCS 150	P10	1415
	A03	1300
	A10	1330

SCS (Materials)

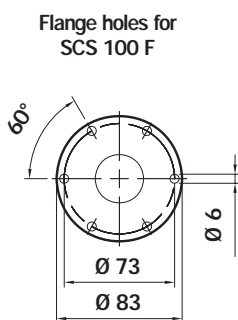
Riser: Galvanised steel

Dimensions

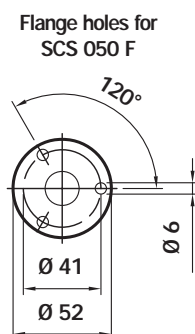


Dimension SCS - CS - CG

Type	D1	H1	H2	H3	Weight (Kg)
CS/CG050	96	143	195	20	0,73
CS/CG070	96	210	262	20	0,95
CS100	129	180	232	25	1,3
CS150	129	220	272	25	1,6
CG100	129	180	232	30	1,3
CG150	129	265	317	30	1,6



Flange holes for SCS 100 F



Flange holes for SCS 050 F

SCS Riser dimensions

Type	A	D2	D3	Weight (Kg)
SCS050...G1	G 3/4"	18	32	0,200
SCS050...G2	1" 12 UN	18	32	0,265
SCS100...G1	G 1 1/4"	32	48	0,450
SCS100...G2	1 1/2" 16 UN	32	48	0,645

