

## SAF Motorsport

Refuelling during race pit stop  
and practice round.





[www.staubli-motorsport.com](http://www.staubli-motorsport.com)

## Designed for performance and safety



US Patent 7 048 020  
Chinese Patent  
n° ZL200410086022.0  
and other countries

### ■ Optimum flow

The SAF 45 coupling flow complies with FIA regulations. The coaxial design (only one filling / vent hose) enables safe and efficient fuel filling during pit stop operations.

### ■ Reliability over time

Stäubli ensures long-term performance. To increase durability, the socket is fitted with a polyurethane sleeve to withstand shocks and the design prevents any jamming during connection to or disconnection from the plug.

### ■ Easy to handle/operate

Main components made out of high resistance aluminium in order to keep the weight as low as possible.

### Coaxial design

Only one filling / vent hose. Stäubli's advanced design enables safe and efficient fuel filling during pit stop operations.







■ **Safe sequential connection**

Patented safety system prevents any fuel release until the socket is fully connected to the plug. Once the connection is made, the valve opens and allows fuel to flow until the operating levers are released.

■ **The socket is equipped with “the dead man principle” function.**

Push and hold down the two levers to secure the connection with the plug.



■ **Clean-break, non-spill design**

The clean-break, non-spill design prevents any spillage while connecting / disconnecting.

■ **Electrical conductivity**

For the users safety, electrical conductivity is assured between all components of the refuelling line (socket, plug, hose... to earth).

**Stäubli committed to be by your side**

■ **Stäubli listen to you**

Your project, your vision, Stäubli listen to you by visiting you in order to perfectly define together your need.

■ **Stäubli partner of your project**

Your need, your SAF, Stäubli supports you for a perfect vehicle integration. Your projects don't stop, neither do Stäubli. We stay by your side till the end of your SAF's utilization.

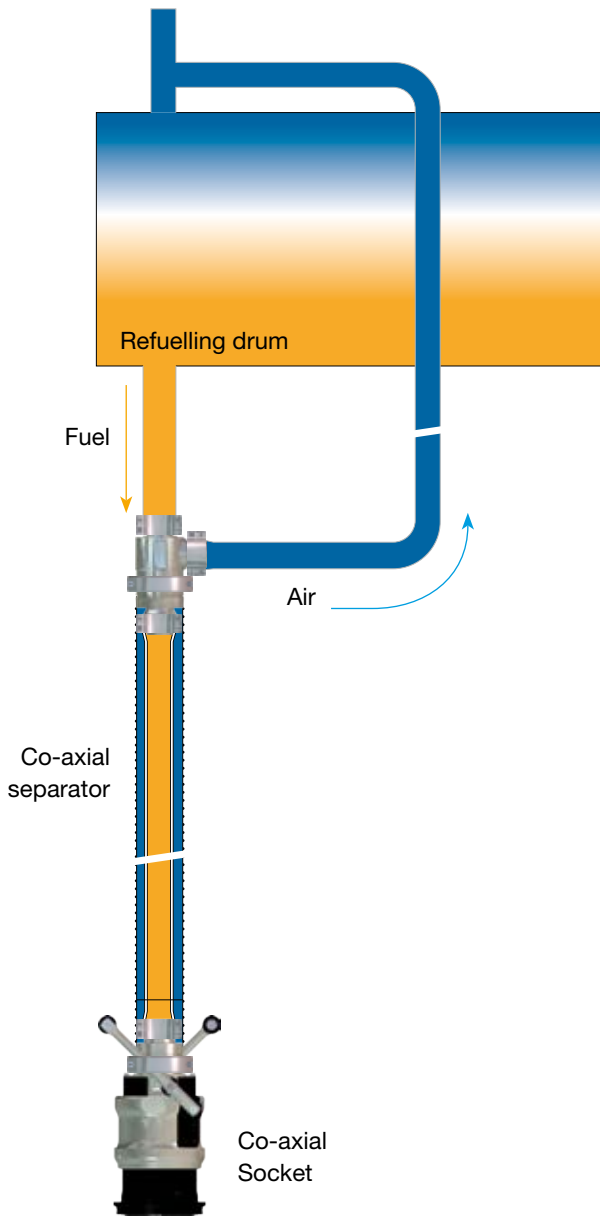


**The opportunity to spend less and contribute to a sustainable development programme**

With Stäubli, you can rely on the performance of your equipment, reliability of long-term investments, no workplace pollution.



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#### Technical characteristics

Minimum and maximum allowable temperatures TS (°C)	0 and 50
Connecting force to 0 bar (daN)	31
Retaining force to 0 bar (daN)	21
Weight (g)	
- coaxial socket	5300
- coaxial socket + bottle	11800
- tank mounted plug	1300
- plug for hose (without collector)	1510
- vent collector	390
- drain plug	1340
Shut-off	double

#### Construction

Mainly aluminium

Seals in Perfluoroelastomer (JKV) in the fluid stream.  
(Other : Fluorocarbon)



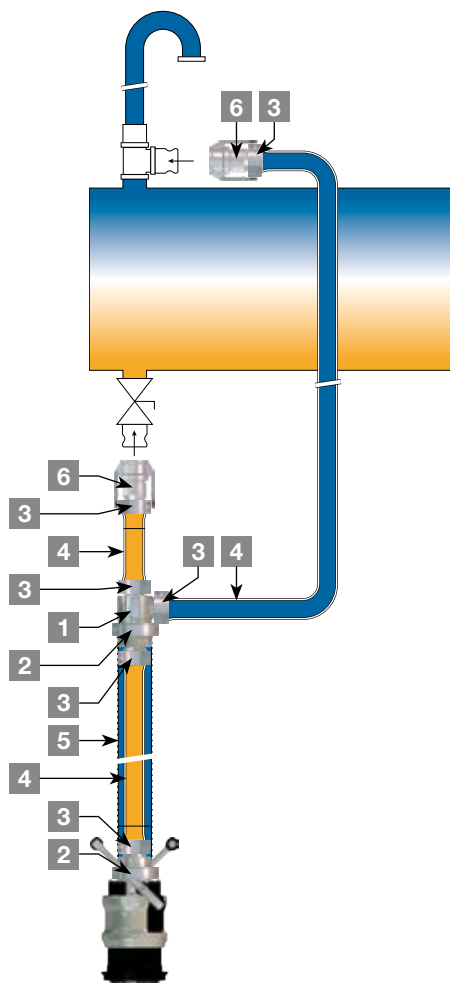
**The bottle socket** exists in straight version and also in tilted version.







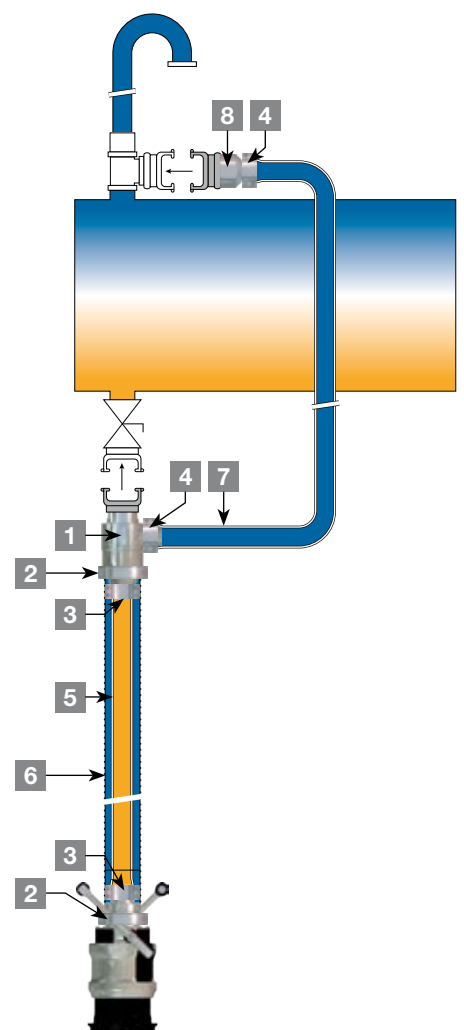
## Complete filling line



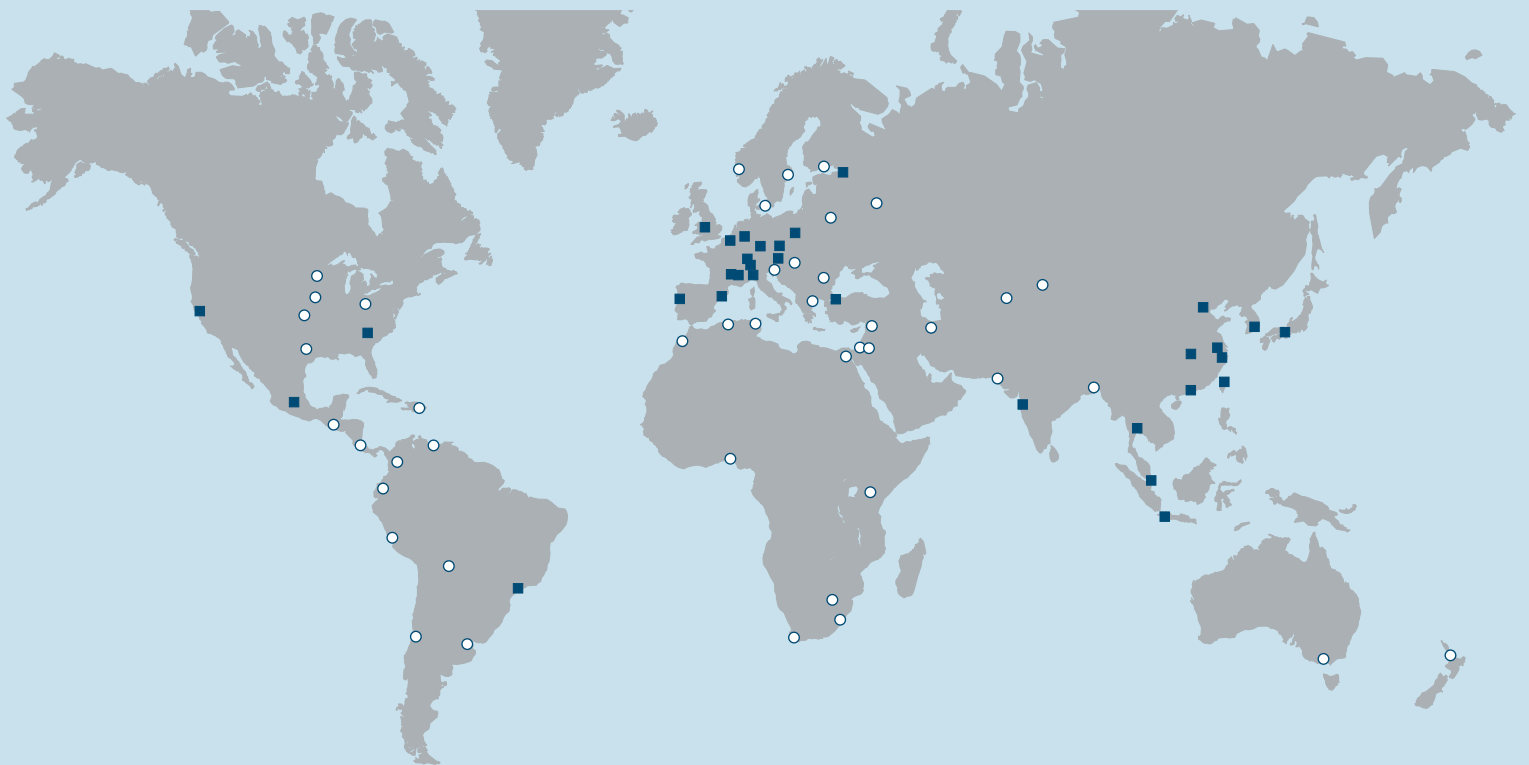
Car			
Designation		Quantity for a complete line	Part numbers
<b>1 Co-axial separator</b> a, b and c: for hose ID = 38 mm d: for hose ID = 75 mm		1	SAF 45.9038/CX
<b>2 Clamps (clamps and screws)</b> for hoses ID = 75 mm		2	SAF 45.9003
<b>3 Clamps (clamps and screws)</b> for hoses ID = 38 mm		6	SAF 45.9001
<b>4 Hoses ID = 38 mm (30 meter roll)</b>		-	FILLFLEX 38
<b>5 Hoses ID = 75 mm (20 meter roll)</b>		-	VENTFLEX 38
<b>6 Cam locking type coupling</b> for hoses ID = 38 mm		2	SAF 45.9010



Motorcycle		Quantity for a complete line	Part numbers
Designation			
<b>1 Co-axial separator</b> a: for hose ID = 38 mm b: G2" female c: for hose ID = 55 mm d: for hose ID = 90 mm		1	SAF 45.9055/CX
<b>2 Clamps (clamps and screws)</b> for hoses ID = 90 mm		2	SAF 45.9004
<b>3 Clamps (clamps and screws)</b> for hoses ID = 55 mm		2	SAF 45.9002
<b>4 Clamps (clamps and screws)</b> for hoses ID = 38 mm		2	SAF 45.9001
<b>5 Hoses ID = 55 mm (20 meter roll)</b>		-	FILLFLEX 55
<b>6 Hoses ID = 90 mm (20 meter roll)</b>		-	VENTFLEX 90
<b>7 Hoses ID = 38 mm (30 meter roll)</b>		-	FILLFLEX 38
<b>8 Adaptor G2 female</b> for hoses ID = 38 mm		1	SAF 45.9011



For contact details: [www.staubli.com/connectors/contacts](http://www.staubli.com/connectors/contacts)



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**International sales coordination**

Stäubli Faverges - CS 30070 - F - 74210 Faverges - Tel.: +33 4 50 65 67 97 - Fax: +33 4 50 65 60 69 - E-mail: [connectors.sales@staubli.com](mailto:connectors.sales@staubli.com)  
[www.staubli.com](http://www.staubli.com)

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