

## SPT Motorsports

Couplings  
for fuel lines





## Applications

### Quick-release couplings for fuel lines:

- Filling
- Venting
- Sampling
- Safety break-away

## The Stäubli technology dedicated to the performance...

### Optimal flow

Valve design ensures optimal flow with a minimum outside diameter.

### Compact and light weight

Compact size, light weight combined with high strength aluminium construction provide optimum performance.

### All fluids compatibility

- all types of fuel
- ethanol
- oil.





...the Stäubli expertise to service your safety.

### Safety break-away

Lanyard release feature ensures a safe fuel line break-away in a crash situation.

### Non-spill

Flush-face design ensures no leakage when disconnecting.

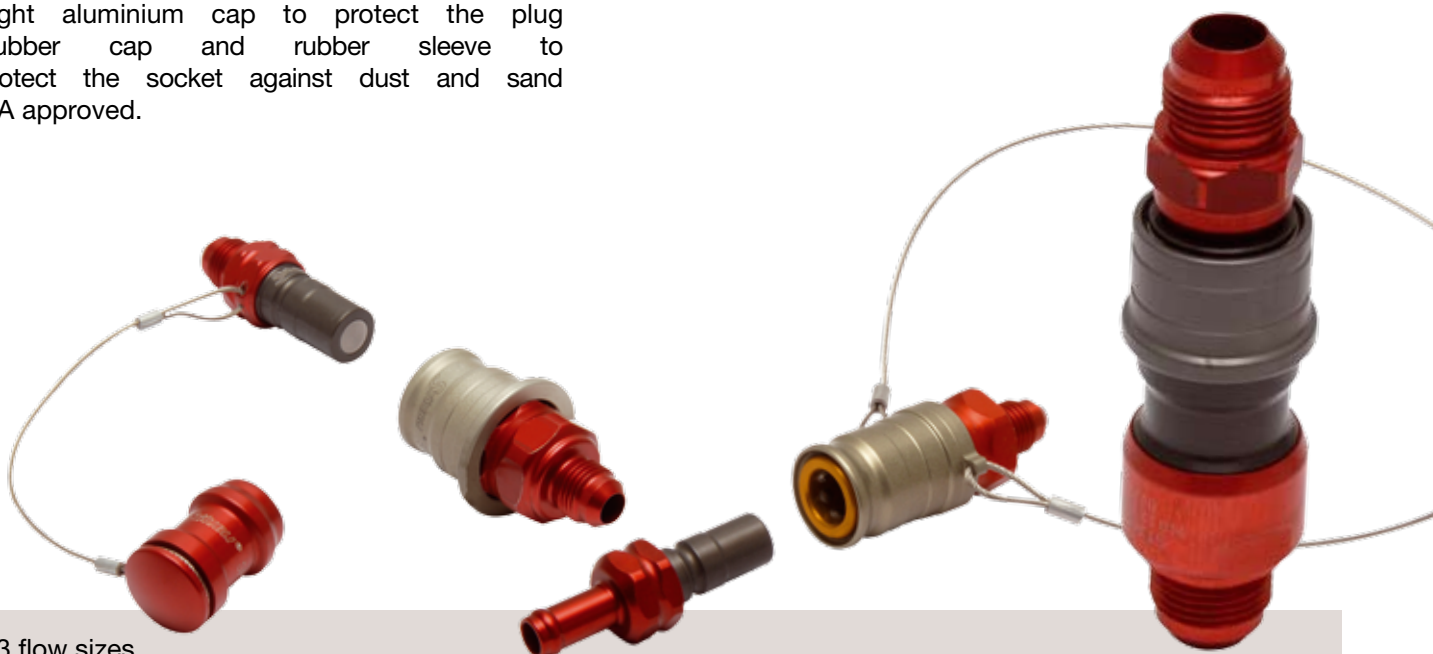
### Rallye raid version (SPT 12)

Needed for gasoline refuelling in the particularly dusty conditions of the Rallye Raid :

- Tight aluminium cap to protect the plug
- Rubber cap and rubber sleeve to protect the socket against dust and sand
- FIA approved.



FIA approved



3 flow sizes



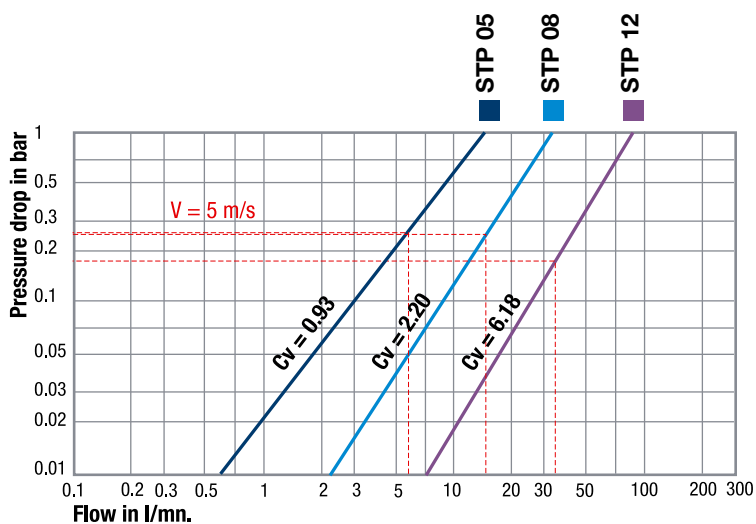
A complete range...

### Technical characteristics

	SPT 05	SPT 08	SPT 12	SPT 12 RALLYE RAID
Nominal diameter (mm)	05	08	12	12
Max. working pressure* (bar)	12	12	12	12
Weight* socket + plug (g)	41	80	260	295
Cross section (mm <sup>2</sup> )	19.6	50.2	113	113
Shut-off system	Double	Double	Double	Double
Option break-away (g)	■	■	-	-

\*depends on references

### Hydraulic charts flow rate / pressure drop



- **STP 05**  
socket : SPT05.1655/L/JV - plug : SPT05.7655/L/JV
- **STP 08**  
socket : SPT08.3656/L/JV - plug : SPT08.7656/L/JV
- **STP 12 / SPT 12 RALLYE RAID**  
socket : SPT12.1658/L/JV/PP/BC - plug : N01042803

#### Test conditions

- Hydraulic oil : INVAROL FJ13 (H515) at 40°C
- Viscosity : 13.4 cSt at 40°C
- Density : 833 kg/m<sup>3</sup> at 40°C
- Flow direction : Plug Socket



...for all your needs

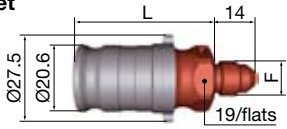
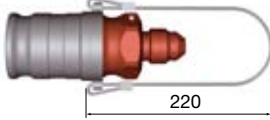
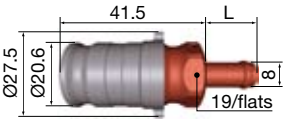
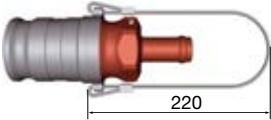
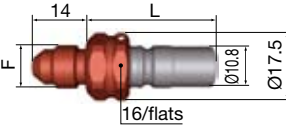
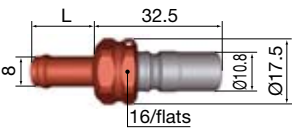
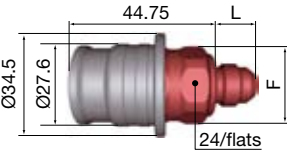
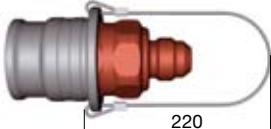
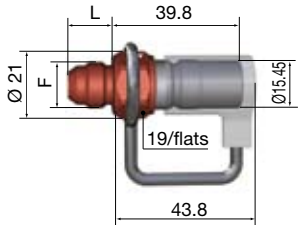
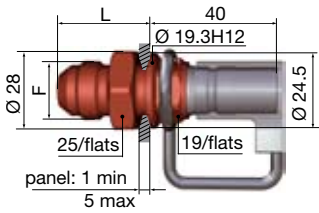
**Construction**  
**High strength aluminium**

**Seals:**

- JKV version: Perfluoroelastomer in the fluid (other: Fluorosiliconelastomer).
- JV version: all Fluorocarbon.

**Select your couplings**

	<b>Motorbike</b> 	<b>Car</b> 
<b>Safety break-away</b>	SPT05	SPT08
<b>Fuel connection</b>	SPT05	SPT08
<b>Fuel sampling</b>	SPT05	SPT08
<b>Refuelling</b>		SPT12
<b>Rallye raid version</b>		SPT12

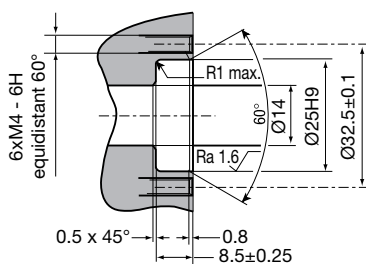
SPT 05	Threads F	L (mm)	JV	JKV
<b>Male thread socket</b> 	UNF 7/16 - 20" JIC DASH 04 UNF 9/16 - 18" JIC DASH 06	41.5 40.2	<b>SPT 05.1653/L/JV</b> <b>SPT 05.1655/L/JV</b>	<b>SPT 05.1653/L/JKV</b> <b>SPT 05.1655/L/JKV</b>
<b>Male thread socket with safety break-away lanyard</b> 	UNF 7/16 - 20" JIC DASH 04 UNF 9/16 - 18" JIC DASH 06	14 14	<b>SPT 05.3653/L/JV</b> <b>SPT 05.3655/L/JV</b>	<b>SPT 05.3653/L/JKV</b> <b>SPT 05.3655/L/JKV</b>
<b>Socket for hose</b> 	hose 08 (mm)	16.5	<b>SPT 05.1808/L/JV/RG</b>	<b>SPT 05.1808/L/JKV/RG</b>
<b>Socket for hose with safety break away lanyard</b> 	hose 08 (mm)	16.5	<b>SPT 05.3808/L/JV/RG</b>	<b>SPT 05.3808/L/JKV/RG</b>
<b>Male thread plug*</b> 	UNF 7/16 - 20" JIC DASH 04 UNF 9/16 - 18" JIC DASH 06	32.5 32	<b>SPT 05.7653/L/JV</b> <b>SPT 05.7655/L/JV</b>	<b>SPT 05.7653/L/JKV</b> <b>SPT 05.7655/L/JKV</b>
<b>Plug for hose*</b> 	hose 08 (mm)	16.5	<b>SPT 05.7808/L/JV/RG</b>	<b>SPT 05.7808/L/JKV/RG</b>
SPT 08	Threads F	L (mm)	JV	JKV
<b>Male thread socket</b> 	UNF 9/16 - 18" JIC DASH 06 UNF 3/4 - 16" JIC DASH 08	14 16.7	<b>SPT 08.1655/L/JV</b> <b>SPT 08.1656/L/JV</b>	<b>SPT 08.1655/L/JKV</b> <b>SPT 08.1656/L/JKV</b>
<b>Male thread socket with safety break-away lanyard</b> 	UNF 9/16 - 18" JIC DASH 06 UNF 3/4 - 16" JIC DASH 08	14 16.7	<b>SPT 08.3655/L/JV</b> <b>SPT 08.3656/L/JV</b>	<b>SPT 08.3655/L/JKV</b> <b>SPT 08.3656/L/JKV</b>
<b>Male thread plug with rubber tight dust cap*</b> 	UNF 9/16 - 18" JIC DASH 06 UNF 3/4 - 16" JIC DASH 08	14 16.7	<b>SPT 08.7655/L/JV</b> <b>SPT 08.7656/L/JV</b>	<b>SPT 08.7655/L/JKV</b> <b>SPT 08.7656/L/JKV</b>
<b>Panel mounted plug</b> 	UNF 9/16 - 18" JIC DASH 06 UNF 3/4 - 16" JIC DASH 08	27 30	<b>SPT 08.5655/L/JV</b> <b>SPT 08.5656/L/JV</b>	<b>SPT 08.5655/L/JKV</b> <b>SPT 08.5656/L/JKV</b>

\*Plugs available with aluminium dust cap: add /BM at the end of the part number.

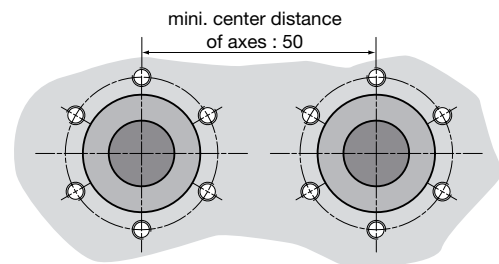
SPT 12		Threads F	L (mm)	JV	JKV
Male thread socket		UNF 7/8 - 14" JIC DASH 10	19	SPT 12.1657/L/JV	SPT 12.1657/L/JKV
		UNF 1 1/16 - 12" JIC DASH 12	21.9	SPT12.1658/L/JV	SPT 12.1658/L/JKV
Non threaded socket		-	-	N 009 161 98	N 010 830 07
Male thread plug		UNF 7/8 - 14" JIC DASH 10	19	SPT 12.7657/L/JV	SPT 12.7657/L/JKV
		UNF 1 1/16 - 12" JIC DASH 12	21.9	SPT 12.7658/L/JV	SPT 12.7658/L/JKV
Non threaded plug		-	-	N 009 162 98	N 010 831 07
Panel mounted plug		UNF 7/8 - 14" JIC DASH 10	36	SPT 12.5657/L/JV	SPT 12.5657/L/JKV
		UNF 1 1/16 - 12" JIC DASH 12	39	SPT 12.5658/L/JV	SPT 12.5658/L/JKV
SPT 12 rallye raid		Threads F	L (mm)	JV	JKV
Male thread socket		UNF 1 1/16 - 12" JIC DASH 12	-	SPT 12.1658/L/JV/PP/BC	SPT 12.1658/L/JKV/PP/BC
Male thread socket		UNF 1 1/16 - 12" JIC DASH 12	-	N 010 428 03	N 012 223 07

### Plug assembly requirements for standard and rallye raid STP 12

#### Male thread plug



#### Center distance of plug axes



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