



USA: (704) 793 4319 UK: 01753 545554 WEB: www.bmrs.net

## Couplings - in Partnership with Stäubli

In partnership with Stäubli, BMRS offers a comprehensive range of quick release couplings.

Applications include; shock absorbers, brake and hydraulic lines, quick-release couplings for fuel lines (filling, venting, sampling, safety break-away, etc.), lubrication and coolants.

Stäubli connectors are designed for safety and optimum lightweight. They are available in aluminium and titanium.

Both SPH and SPT couplings' non-drip, clean break feature guarantees the integrity of fluids and makes a secure connection. FIA approved.

### Quick Disconnects Contents

SPH/BA	8.2
SPT	8.6
RM/EA	8.9
CBR	8.11
SPM	8.13
JAC	8.15



**STÄUBLI**

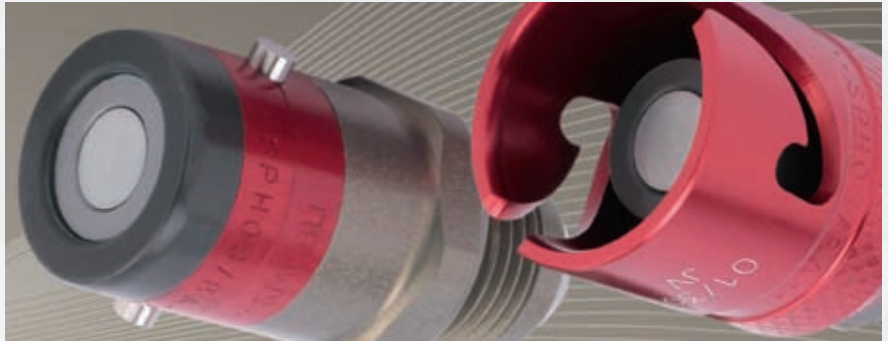


## SPH/BA Couplings

True dry break coupling for:

Shock Absorbers  
Brakes and hydraulic Lines  
Lubrication and coolants

The flush face design ensures no air inclusion into the system when connecting as well as no leakage when disconnecting. This eliminates the need to purge the system and permits the use of pre-filled hose.







### Technical Characteristics

	SPH 03/BA		SPH 05/BA		SPH 08/BA
Flow diameter (ins)	1/8		13/64		5/16
Cross section (in <sup>2</sup> )	0.011		0.030		0.078
Shutoff system	Double		Double		Double
Max Operating Pressure (psi)	Aluminium	Titanium	Aluminium	Titanium	Aluminium
	2900	5076	2320	3190	1160

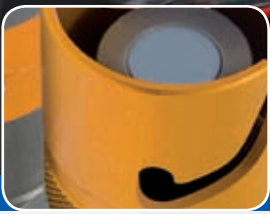
Other sizes are available. Consult BMRS

### Construction

2 Constructions				
	High Strength Aluminium <b>Code L</b>		Main Parts in Titanium <b>Code TI</b>	
Available Colours				

2 Types of Seal		
For Brake Fluid	Ethylene Propylene (EPDM)	Add / <b>JE</b> at the end of the part number
For Oils, Mineral Greases, Nitrogen, Gasoline	Fluorocarbon (FPM)	Add / <b>JV</b> at the end of the part number





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## Part Numbers SPH 03/BA

	F	L (ins)	Weight (oz)		Part numbers	
			Aluminium	Titanium	Aluminium	Titanium
<b>Socket, Metric Male Thread</b> 	M10 x 1.0	0.31	0.39	0.56	■ SPH 03.1410/BA/L/KR	■ SPH 03.1410/BA/TI/KB
					■ SPH 03.1410/BA/L/KJ	■ SPH 03.1410/BA/TI/KV
<b>Socket, UNF Male Thread</b> 	UNF 3/8 – 24" JIC DASH 3	0.47	0.39	0.56	■ SPH 03.1652/BA/L/KR	■ SPH 03.1652/BA/TI/KB
	UNF 7/16 – 20" JIC DASH 4	0.55	0.42	0.63	■ SPH 03.1653/BA/L/KR	■ SPH 03.1653/BA/TI/KB
<b>Panel Mounted Socket, UNF Male Thread</b> 	UNF 3/8 – 24" JIC DASH 3	0.94	0.49	1.0	■ SPH 03.2652/BA/L/KR	■ SPH 03.2652/BA/TI/KB
					■ SPH 03.2652/BA/L/KJ	■ SPH 03.2652/BA/TI/KV

	F	L (ins)	Weight (oz)		Part numbers	
			Aluminium	Titanium	Aluminium	Titanium
<b>Plug, Metric Male Thread</b> 	M10 x 1.0	0.31	0.42	-	■ SPH 03.7410/BA/L/KR	-
					■ SPH 03.7410/BA/L/KJ	-
<b>Plug, UNF Male Thread</b> 	UNF 3/8 – 24" JIC DASH 3	0.47	0.42	0.56	■ SPH 03.7652/BA/L/KR	■ SPH 03.7652/BA/TI/KB
	UNF 7/16 – 20" JIC DASH 4	0.55	0.42	0.63	■ SPH 03.7653/BA/L/KR	■ SPH 03.7653/BA/TI/KB
					■ SPH 03.7653/BA/L/KJ	■ SPH 03.7653/BA/TI/KV

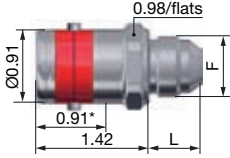
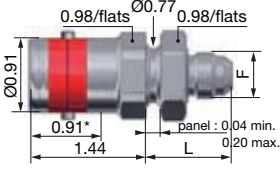
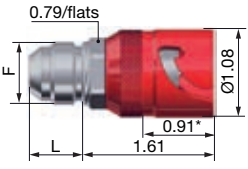


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## Part Numbers SPH 05/BA

	F	L (ins)	Weight (oz)		Part numbers	
			Aluminium	Titanium	Aluminium	Titanium
<b>Socket, Metric Male Thread</b> 	M12 x 1.0	0.35	-	0.99	■ SPH 05.1412/BA/L/KR	■ SPH 05.1412/BA/TI/KB
					■ SPH 05.1412/BA/L/KJ	■ SPH 05.1412/BA/TI/KV
<b>Socket, UNF Male Thread</b> 	UNF 7/16 –20" JIC DASH 4	0.55	0.63	1.02	■ SPH 05.1653/BA/L/KR	■ SPH 05.1653/BA/TI/KB
	UNF 9/16 –18" JIC DASH 6	0.55	0.67	0.95	■ SPH 05.1655/BA/L/KR	■ SPH 05.1655/BA/TI/KB
<b>Panel Mounted Socket, UNF Male Thread</b> 	UNF 7/16 –20" JIC DASH 4	1.02	0.81	1.27	■ SPH 05.2653/BA/L/KR	■ SPH 05.2653/BA/TI/KB
	UNF 9/16 –18" JIC DASH 6	1.02	0.85	1.34	■ SPH 05.2655/BA/L/KR	■ SPH 05.2655/BA/TI/KB
<b>Plug, UNF Male Thread</b> 	UNF 7/16 –20" JIC DASH 4	0.55	0.60	1.02	■ SPH 05.7653/BA/L/KR	■ SPH 05.7653/BA/TI/KB
	UNF 9/16 –18" JIC DASH 6	0.55	0.67	1.69	■ SPH 05.7655/BA/L/KR	■ SPH 05.7655/BA/TI/KB

## Part Numbers SPH 08/BA

	F	L (ins)	Weight (oz)	Part numbers
			Aluminium	Aluminium
<b>Socket, UNF Male Thread</b> 	UNF 9/16 – 18" JIC DASH 6	0.55	1.13	<span style="color: red;">■</span> SPH 08.1655/BA/L/KR <span style="color: yellow;">■</span> SPH 08.1655/BA/L/KJ
	UNF 3/4 – 16" JIC DASH 8	0.65	1.27	<span style="color: red;">■</span> SPH 08.1656/BA/L/KR <span style="color: yellow;">■</span> SPH 08.1656/BA/L/KJ
<b>Panel Mounted Socket, UNF Male Thread</b> 	UNF 9/16 – 18" JIC DASH 6	1.06	1.52	<span style="color: red;">■</span> SPH 08.2655/BA/L/KR <span style="color: yellow;">■</span> SPH 08.2655/BA/L/KJ
	UNF 3/4 – 16" JIC DASH 8	1.18	1.62	<span style="color: red;">■</span> SPH 08.2656/BA/L/KR <span style="color: yellow;">■</span> SPH 08.2656/BA/L/KJ
<b>Plug, UNF Male Thread</b> 	UNF 9/16 – 18" JIC DASH 6	0.55	1.02	<span style="color: red;">■</span> SPH 08.7655/BA/L/KR <span style="color: yellow;">■</span> SPH 08.7655/BA/L/KJ
	UNF 3/4 – 16" JIC DASH 8	0.65	1.16	<span style="color: red;">■</span> SPH 08.7656/BA/L/KR <span style="color: yellow;">■</span> SPH 08.7656/BA/L/KJ



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## SPT Couplings

Dry break quick release / break-away.

### Coupling for fuel systems:

- Filling
- Venting
- Safety break-away
- Sampling - FIA approved for fuel sampling

### All fluids compatibility:

- all types of fuel
- ethanol
- oil



### Technical Characteristics

	SPT 05	SPT 08	SPT 12	SPT 12 RALLYE RAID
Nominal diameter (ins)	13/64	5/16	15/32	15/32
Max. working pressure* (psi)	174	174	174	174
Weight* socket + plug (oz)	1.446	2.822	9.171	10.406
Cross section (in <sup>2</sup> )	0.030	0.078	0.175	0.175
Shut-off system	Double	Double	Double	Double
Option break-away				

### Construction


High strength aluminium

### Seals:

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

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



 FIA approved



## Part Numbers SPT

SPT 05		Thread F	L (ins)	Part numbers JV	Part numbers JKV
Male Thread Socket		UNF 7/16 - 20" JIC DASH 04	1.63	SPT 05.1653/L/JV	SPT 05.1653/L/JKV
		UNF 9/16 - 18" JIC DASH 06	1.58	SPT 05.1655/L/JV	SPT 05.1655/L/JKV
Male Thread Socket with Safety Break-away Lanyard		UNF 7/16 - 20" JIC DASH 04	0.55	SPT 05.3653/L/JV	SPT 05.3653/L/JKV
		UNF 9/16 - 18" JIC DASH 06	0.55	SPT 05.3655/L/JV	SPT 05.3655/L/JKV
Male Thread Plug		UNF 7/16 - 20" JIC DASH 04	1.28	SPT 05.7653/L/JV	SPT 05.7653/L/JKV
		UNF 9/16 - 18" JIC DASH 06	1.26	SPT 05.7655/L/JV	SPT 05.7655/L/JKV
SPT 08		Thread F	L (ins)	Part numbers JV	Part numbers JKV
Male Thread Socket		UNF 9/16 - 18" JIC DASH 06	0.55	SPT 08.1655/L/JV	SPT 08.1655/L/JKV
		UNF 3/4 - 16" JIC DASH 08	0.66	SPT 08.1656/L/JV	SPT 08.1656/L/JKV
Male Thread Socket with Safety Break-away Lanyard		UNF 9/16 - 18" JIC DASH 06	0.55	SPT 08.3655/L/JV	SPT 08.3655/L/JKV
		UNF 3/4 - 16" JIC DASH 08	0.66	SPT 08.3656/L/JV	SPT 08.3656/L/JKV
Male Thread Plug with Rubber Tight Dust Cap*		UNF 9/16 - 18" JIC DASH 06	0.55	SPT 08.7655/L/JV	SPT 08.7655/L/JKV
		UNF 3/4 - 16" JIC DASH 08	0.66	SPT 08.7656/L/JV	SPT 08.7656/L/JKV
Panel Mounted Plug*		UNF 9/16 - 18" JIC DASH 06	1.06	SPT 08.5655/L/JV	SPT 08.5655/L/JKV
		UNF 3/4 - 16" JIC DASH 08	1.18	SPT 08.5656/L/JV	SPT 08.5656/L/JKV

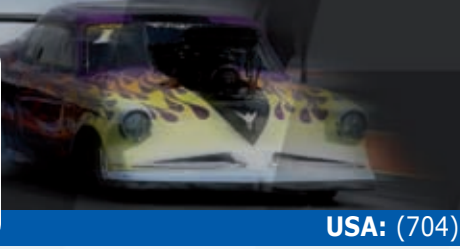


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## Part Numbers SPT

SPT 12		Thread F	L (ins)	Part numbers JV	Part numbers JKV
<b>Male Thread Socket</b>		UNF 7/8 - 14" JIC DASH 10	0.75	SPT 12.1657/L/JV	SPT 12.1657/L/JKV
		UNF 1 1/16 - 12" JIC DASH 12	0.86	SPT12.1658/L/JV	SPT 12.1658/L/JKV
<b>Male Thread Plug</b>		UNF 7/8 - 14" JIC DASH 10	0.75	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
<b>Panel Mounted Plug</b>		UNF 7/8 - 14" JIC DASH 10	1.42	SPT 12.5657/L/JV	SPT 12.5657/L/JKV
		UNF 1 1/16 - 12" JIC DASH 12	1.54	SPT 12.5658/L/JV	SPT 12.5658/L/JKV
<b>SPT 12 Rallye Raid</b>		<b>Thread F</b>	<b>L (ins)</b>	<b>Part numbers JV</b>	<b>Part numbers JKV</b>
<b>Male Thread Socket</b>		UNF 1 1/16 - 12" JIC DASH 12	-	SPT 12.1658/L/JV/PP/BC	SPT 12.1658/L/JKV/PP/BC
<b>Male Thread Socket</b>		UNF 1 1/16 - 12" JIC DASH 12	-	N 010 428 03	N 012 223 07





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## RMI/EA Couplings

An economical lightweight aluminium coupler for water and oil systems. This connector has minimal fluid loss while disconnecting.

- Compact size
- Light weight
- Minimal fluid loss while connecting and disconnecting
- Not suitable for fuel applications



### Technical Characteristics

	RMI 09	RMI 12	RMI16
Nominal Diameter (ins)	3/8	1/2	5/8
Max Working Pressure (psi)	230	230	230
Shut-off System	Double	Double	Double

### Construction

Mainly high strength aluminium

### Seals

-JV code: Fluorocarbon (FPM)





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## Part Numbers RMI/EA

RMI 09/EA	Thread F	D (ins)	L1 (ins)	L2 (ins)	Flats (ins)	Part numbers
<b>Male Thread Socket</b> 	UNF 9/16 18" JIC DASH 6	0.98	0.55	2.06	0.87	RMI 09.1655/EA/L/JV
	UNF 3/4 16" JIC DASH 8	0.98	0.66	2.05	0.87	RMI 09.1656/EA/L/JV
<b>Male Thread Plug</b> 	UNF 9/16 18" JIC DASH 6	0.83	0.55	1.93	0.75	RMI 09.7655/EA/L/JV
	UNF 3/4 16" JIC DASH 8	0.83	0.66	1.93	0.75	RMI 09.7656/EA/L/JV
RMI 12/EA	Thread F	D (ins)	L1 (ins)	L2 (ins)	Flats (ins)	Part Numbers
<b>Male Thread Socket</b> 	UNF 7/8 14" JIC DASH 10	1.22	0.76	2.46	1.06	RMI 12.1657/EA/L/JV
	UN 1 1/16 12" JIC DASH 12	1.22	0.87	2.09	1.06	RMI 12.1658/EA/L/JV
<b>Male Thread Plug</b> 	UNF 7/8 14" JIC DASH 10	1.16	0.76	2.31	1.06	RMI 12.7657/EA/L/JV
	UN 1 1/16 12" JIC DASH 12	1.16	0.87	2.17	1.06	RMI 12.7658/EA/L/JV
RMI 16/EA	Thread F	D (ins)	L1 (ins)	L2 (ins)	Flats (ins)	Part numbers
<b>Male Thread Socket</b> 	UN 1 1/16 12" JIC DASH 12	1.50	0.87	3.19	1.26	RMI 16.1658/EA/L/JV
	UN 1 5/16 12" JIC DASH 16	1.50	0.91	2.68	1.26	RMI 16.1659/EA/L/JV
<b>Male Thread Plug</b> 	UN 1 1/16 12" JIC DASH 12	1.46	0.87	3.11	1.34	RMI 16.7658/EA/L/JV
	UN 1 5/16 12" JIC DASH 16	1.46	0.91	2.95	1.34	RMI 16.7659/EA/L/JV



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## CBR 02 Couplings

True dry break coupling for connecting and bleeding hydraulic systems, brakes and recharging dampers.

- Very Compact
- Very Light
- Clean-break
- High Pressure Resistant

High resistance locking system suitable for the strong mechanical forces during race conditions.



### Technical Characteristics

	Socket -2 JIC Male	Socket -3 JIC Male	Plug -2 JIC Male	Plug -3 JIC Male	Plug 5/16 x 24 'O'Ring Seal	Plug 3/8 x 24 'O'Ring Seal	Plug M8 x 1 'O'Ring Seal	Plug M10 x 1 Copper Washer Seal
Max. working pressure	4351	4351	4351	4351	4351	4351	4351	1450
Weight (oz)	0.384	0.416	0.236	0.236	0.134	0.169	0.134	0.187
Shut-off system	Double	Double	Double	Double	Double	Double	Double	Double

### Construction

**Plug:** Titanium (green or blue)

**Socket:** Titanium with green or blue locking rings

**Plug Caps:** green or blue Titanium locking rings and stainless steel indicator.

**Seals:**

-JV version - Fluorocarbon

-JE version - Ethylene-propylene (EPDM)

-JK version - Perfluoroelastomer





## Part Numbers CBR 02

	Thread F	Dia D (ins)	L1 (ins)	L2 (ins)	Seals			Part numbers	
					JV	JE	JK	Blue colour KB	Green colour KV
<b>Socket</b> 	UNF 5/16-24" JIC DASH 2	0.492	1.24	0.453	•			CBR 02.1651/TI/KB/JV	CBR 02.1651/TI/KV/JV
						•		CBR 02.1651/TI/KB/JE	CBR 02.1651/TI/KV/JE
	UNF 3/8-24" JIC DASH 3	0.492	1.24	0.480	•			CBR 02.1652/TI/KB/JV	CBR 02.1652/TI/KV/JV
						•		CBR 02.1652/TI/KB/JE	CBR 02.1652/TI/KV/JE
<b>Plug</b> 	UNF 5/16-24"	0.413	0.295	0.591	•			CBR 02.7408/TI/KB/JV/UN	CBR 02.7408/TI/KV/JV/UN
						•		CBR 02.7408/TI/KB/JE/UN	CBR 02.7408/TI/KV/JE/UN
							•	CBR 02.7408/TI/KB/JK/UN	CBR 02.7408/TI/KV/JK/UN
	UNF 3/8-24"	0.472	0.276	0.630	•			CBR 02.7409/TI/KB/JV/UN	CBR 02.7409/TI/KV/JV/UN
						•		CBR 02.7409/TI/KB/JE/UN	CBR 02.7409/TI/KV/JE/UN
							•	CBR 02.7409/TI/KB/JK/UN	CBR 02.7409/TI/KV/JK/UN
	M 8 X 1	0.413	0.295	0.630	•			CBR 02.7408/TI/KB/JV	CBR 02.7408/TI/KV/JV
						•		CBR 02.7408/TI/KB/JE	CBR 02.7408/TI/KV/JE
							•	CBR 02.7408/TI/KB/JK	CBR 02.7408/TI/KV/JK
<b>Plug with Copper Seal</b> 	M 10 X 1	0.551	0.315	0.650	•			CBR 02.7410/TI/KB/JV	CBR 02.7410/TI/KV/JV
						•		CBR 02.7410/TI/KB/JE	CBR 02.7410/TI/KV/JE
							•	CBR 02.7410/TI/KB/JK	CBR 02.7410/TI/KV/JK
<b>Plug for Hose</b> 	UNF 5/16-24" JIC DASH 2	0.472	0.453	0.854	•			CBR 02.7651/TI/KB/JV	CBR 02.7651/TI/KV/JV
						•		CBR 02.7651/TI/KB/JE	CBR 02.7651/TI/KV/JE
							•	CBR 02.7651/TI/KB/JK	CBR 02.7651/TI/KV/JK
	UNF 3/8-24" JIC DASH 3	0.472	0.480	0.776	•			CBR 02.7652/TI/KB/JV	CBR 02.7652/TI/KV/JV
						•		CBR 02.7652/TI/KB/JE	CBR 02.7652/TI/KV/JE
							•	CBR 02.7652/TI/KB/JK	CBR 02.7652/TI/KV/JK
<b>Tight Plug Cap</b> 	-	0.492	0.563	-	•			CBR 02.8550/TI/KB/JV	CBR 02.8550/TI/KV/JV
						•		CBR 02.8550/TI/KB/JE	CBR 02.8550/TI/KV/JE
							•	CBR 02.8550/TI/KB/JK	CBR 02.8550/TI/KV/JK

We reserve the right to make changes or modifications to our products without prior notice.

■ KB code: blue colour

■ KV code: green colour



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## SPM Couplings

Stäubli SPM range, the couplings that speed up gearbox oil filling and eliminates any potentially dangerous spillages.

**Completely recessed mounting into crankcase: no raised parts.**

Designed to prevent any track pollution risk due to oil spillage, the SPM couplings are completely integrated into the crankcase. It is therefore well protected against shocks and stays tight, even in a crash.

Easy to integrate, the SPM range is directly adaptable to your crankcase



**Non-drip, clean-break: no oil drops on the floor.**

The flush face design eliminates any spillage of oil onto the car or pit area and any ingress of air into the system.

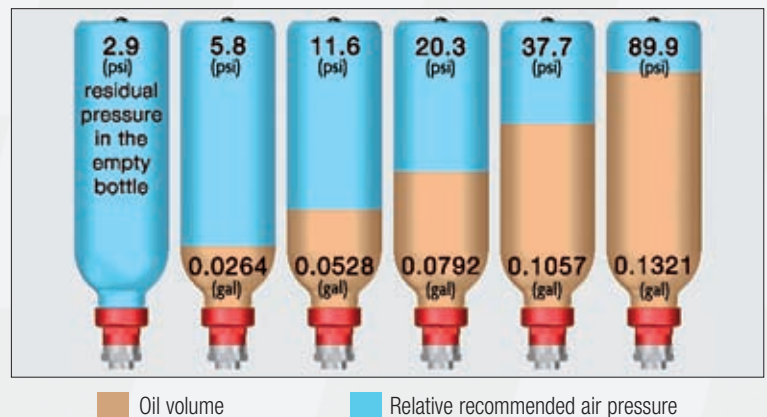
### Light weight

Designed to contribute lightness and compactness, SPM couplings contribute to the optimization of your performances.

### Technical Characteristics

	SPM 08	SPM12
Nominal diameter (ins)	5/16	1/2
Max working pressure (psi)	116	116
Shut-off	Double	Double

With the bottle version, the working pressure depends on oil volume:



### Construction

- Socket (car side): aluminium
- Plug (pit side): brass
- Bottle (pit side): aluminium
- Seals: fluorocarbon (JV)



## Part Numbers SPM

Sockets, Male Thread		Thread F	Dia D (ins)	L (ins)	L1 (ins)	L2 (ins)	e (ins)	Weight (lbs)	Part numbers
Panel mounted 	SPM 08	UN 9/16 - 18" JIC Dash 6	1.358	0.295	1.65	0.55	0.04 to 0.10	0.11	SPM 08.2655/RG/JV
	SPM 12	UN 1 1/16 - 12" JIC DASH 12	1.417	0.276	2.55	0.87	0.04 to 0.31	0.21	SPM 12.2658/RG/JV
Screwed mounted type 1 	SPM 08	M 19 x 2.5	1.181	0.988	-	0.39	-	0.08	N 006.469.06
		M 20 x 1.5	1.181	0.988	-	0.39	-	0.08	N 002.430.05
		M 22 x 1.5	1.181	0.988	-	0.59	-	0.09	N 003.700.08
		M 24 x 1.5	1.181	0.988	-	0.39	-	0.09	N 012.344.06
Screwed mounted type 2 	SPM 08	M 27 x 3	1.457	0.295	-	0.63	-	0.07	N 001.323.04
		M 30 x 1.5	1.575	0.520	-	0.39	-	0.08	N 005.129.05
	SPM 12	M 30 x 1.5	1.614	0.799	-	0.39	-	0.15	N 012.281.06
<b>Plugs</b>									
Female thread 	SPM 08	G 3/8	1.161	1.799	-	-	-	0.29	SPM 08.7102/RG/JV
	SPM 12	G 3/4	1.654	1.949	-	-	-	0.61	SPM 12.7104/RG/JV
Plug with bottle 	SPM 08	-	2.717	10.02	-	-	-	0.91	SPM 08.7001/RG/JV

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## JAC - Air Jack Lance and Plug

- Easy to connect
- Quick operation
- Light weight
- Compact design
- Two plug versions:  
Valved safety plug  
Plug with integrated venting



### Technical Characteristics

Fluids : Compressed Air and Nitrogen.	
Operating pressure (psi)	217 to 580
Operating temperature (°F)	23 to 122
Connection force (lbf)	18
Weight - Plug (oz)	3.35
Weight - Plug with integrated venting	1.31





USA: (704) 793 4319 UK: 01753 545554 WEB: www.bmrs.net

## Part Numbers JAC

Socket	Part numbers
<p><b>JAC Lance</b></p>	JAC 06.1102
<p><b>Swivel Version JAC Lance</b></p>	JAC 06.1102/MSW
Plug	Part numbers
<p><b>JAC Valved Safety Plug</b></p>	JAC 06.5655
<p><b>JAC Plug with Integrated Venting</b></p>	JAC 06.4655