

SPH/BA Motorsports

Clean-break
couplings for high
pressure circuits





Applications

- shock absorbers, brake and hydraulic lines
- lubrication and coolants

Choose SPH/BA couplings...

Combine lightweight and resistance, ally performance and safety.

Staunch resistance

Even subjected to extreme vibrations, the connections are perfectly safe thanks to the bayonet locking system.

Easy to identify thanks to their blue or green color, the titanium versions are particularly strong.

bayonet locking



titanium



aluminium



Lightness

In red or yellow aluminium and from only 23 g, the SPH/BA range includes a «featherweight» version.





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...and spend more time on the track!

**Non-drip, clean break,
to guarantee the integrity
of the fluids and the
environment.**

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 hoses.

Complete range

- 5 diameters
- 2 constructions and seal types according to your fluids and applications
- 4 colours for an easy identification of your circuits.

Optimal flow

The internal valve design ensures maximum flow within the minimum outside diameter.

Quick and easy

Just push and twist to make a secure connection.



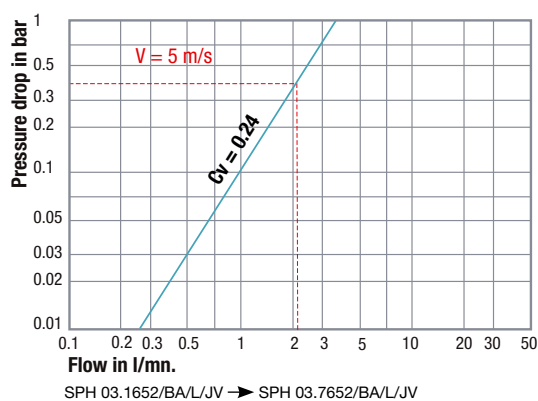


Technical characteristics

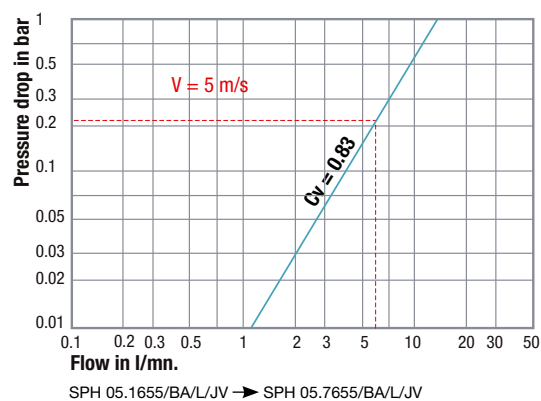
	SPH 03/BA		SPH 05/BA	
Flow diameter (mm)	03		05	
Cross section (mm ²)	7.1		19.6	
Shut-off system	Double		Double	
Max. operating pressure (bar)	aluminium	titanium	aluminium	titanium
	200	350	160	220

Hydraulic charts flow rate / pressure drop

SPH 03/BA



SPH 05/BA



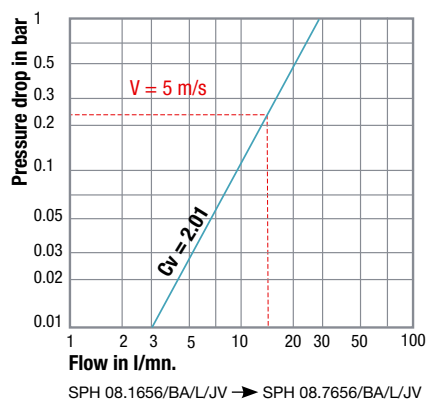
Construction

	2 constructions				2 types of seals		
	High strength aluminium code L		Main parts in titanium code T1				
available colors					For brake fluid	Ethylene propylene (EPDM)	Add /JE at the end of the part number
					For oils, mineral greases, nitrogen, gasoline...	Fluorocarbon (FPM)	Add /JV at the end of the part number

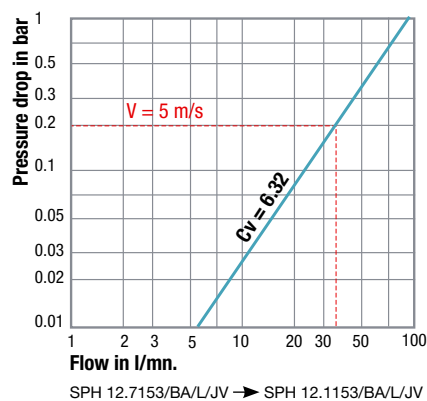


SPH 08/BA	SPH 12/BA	SPH 16/BA
08	12	16
50.3	113	201.0
Double	Double	Double
aluminium	aluminium	aluminium
80	50	50

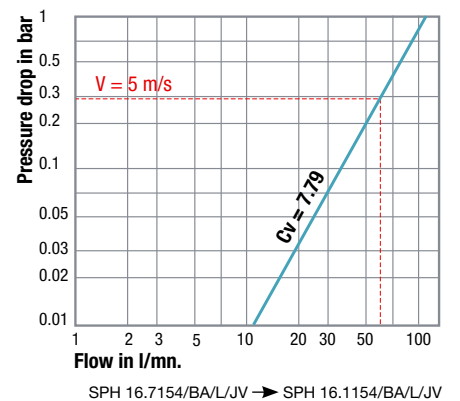
SPH 08/BA



SPH 12/BA

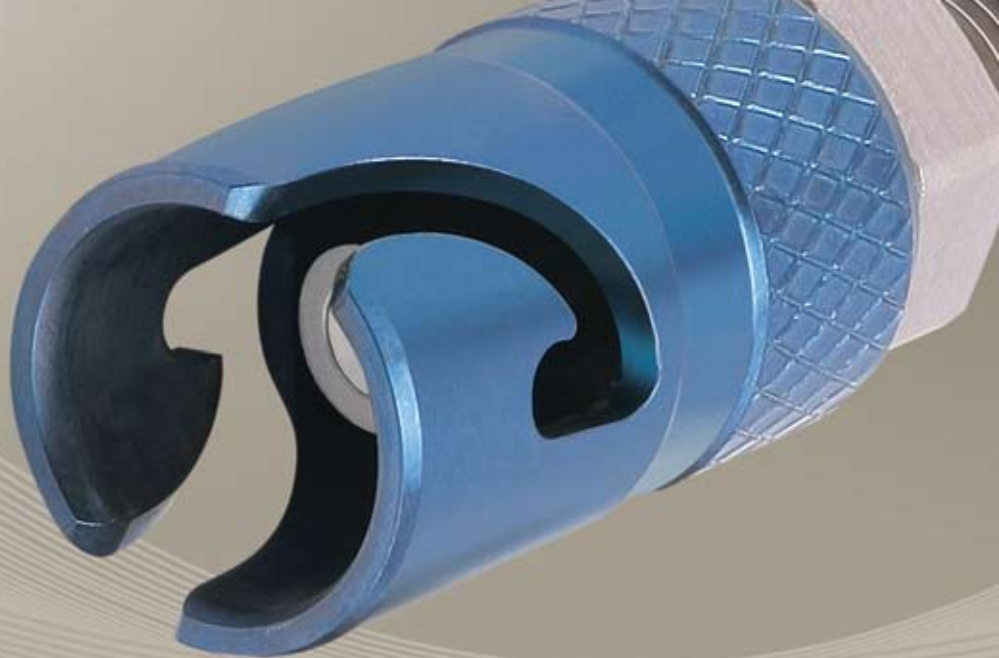


SPH 16/BA



Test conditions

- Water

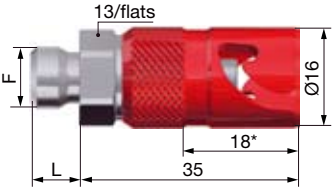
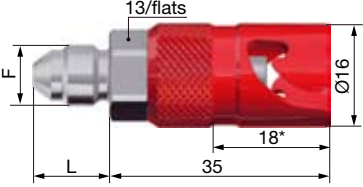


Part numbers: SPH 03/BA

	F	L (mm)	Weight (g)		Part-numbers	
			alu	tit	aluminium	titanium
Socket, metric male thread 	M 10 x 1,0	8	11	16	■ SPH 03.1410/BA/L/KR	■ SPH 03.1410/BA/TI/KB
					■ SPH 03.1410/BA/L/KJ	■ SPH 03.1410/BA/TI/KV
Socket, UNF male thread 	UNF 3/8 – 24" JIC DASH 3	12	11	16	■ SPH 03.1652/BA/L/KR	■ SPH 03.1652/BA/TI/KB
					■ SPH 03.1652/BA/L/KJ	■ SPH 03.1652/BA/TI/KV
	UNF 7/16 – 20" JIC DASH 4	14	12	18	■ SPH 03.1653/BA/L/KR	■ SPH 03.1653/BA/TI/KB
					■ SPH 03.1653/BA/L/KJ	■ SPH 03.1653/BA/TI/KV
Panel mounted socket, UNF male thread 	UNF 3/8 – 24" JIC DASH 3	24	14	29	■ SPH 03.2652/BA/L/KR	■ SPH 03.2652/BA/TI/KB
					■ SPH 03.2652/BA/L/KJ	■ SPH 03.2652/BA/TI/KV
Socket, Banjo connection 	Banjo Connection	22	14,2		■ SPH 03.1021/BA/L/KR/BJ	
					■ SPH 03.1021/BA/L/KJ/BJ	

*socket/plug in connected position



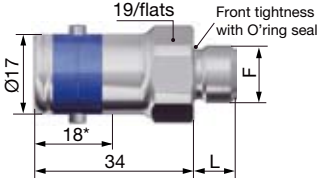
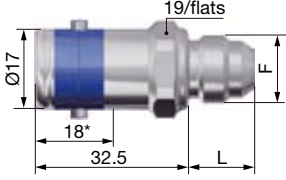
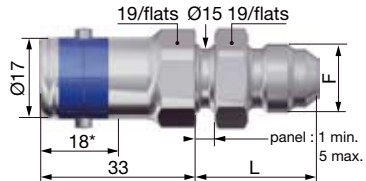
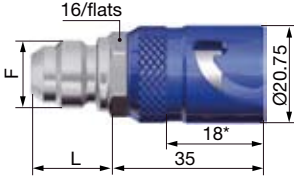
	F	L (mm)	Weight (g)		Part-numbers	
			alu	tit	aluminium	titanium
Plug, metric male thread 	M 10 x 1,0	8	12	-	■ SPH 03.7410/BA/L/KR	-
					■ SPH 03.7410/BA/L/KJ	
Plug, UNF male thread 	UNF 3/8 – 24" JIC DASH 3	12	12	18	■ SPH 03.7652/BA/L/KR	■ SPH 03.7652/BA/TI/KB
					■ SPH 03.7652/BA/L/KJ	■ SPH 03.7652/BA/TI/KV
	UNF 7/16 – 20" JIC DASH 4	14	12	29	■ SPH 03.7653/BA/L/KR	■ SPH 03.7653/BA/TI/KB
					■ SPH 03.7653/BA/L/KJ	■ SPH 03.7653/BA/TI/KV

*socket/plug in connected position

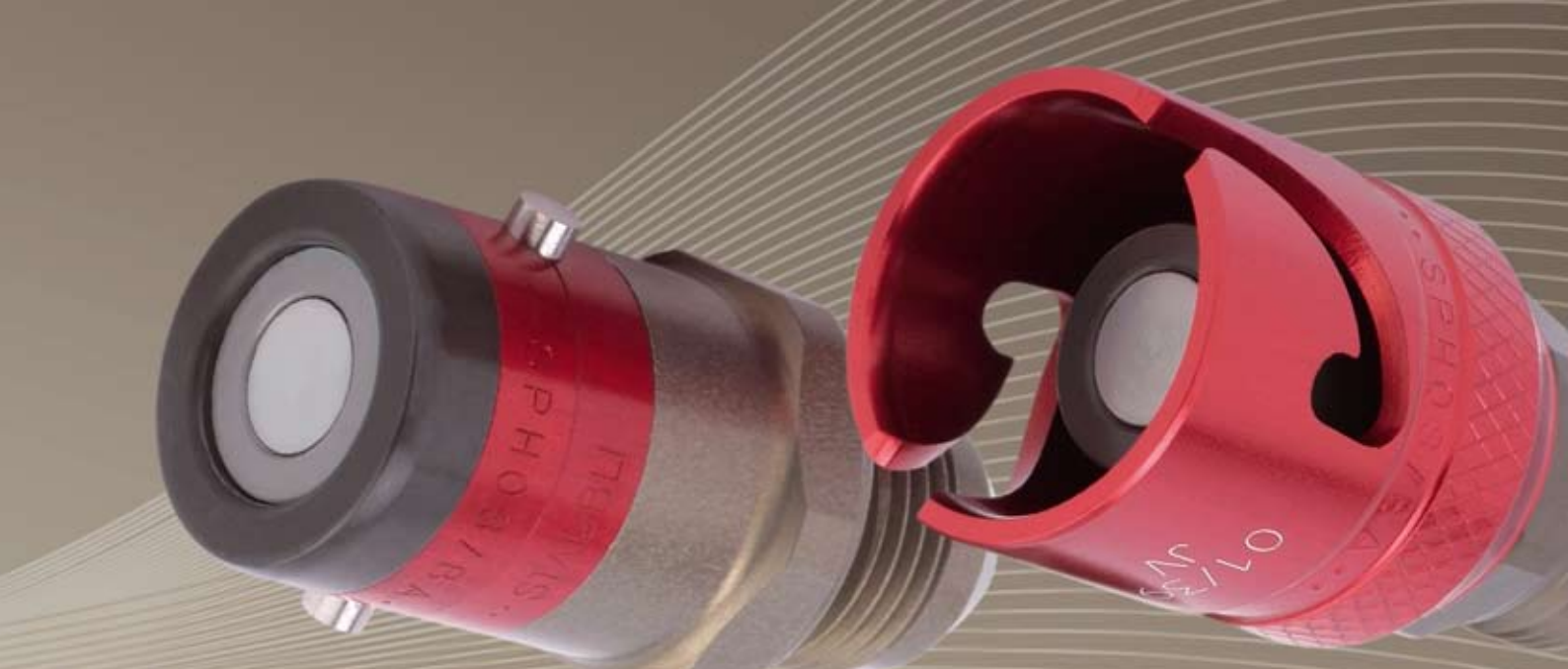
Part numbers construction:

with EPDM seals, add /JE at the end of the part numbers
with FPM seals, add /JV at the end of the part numbers

Part numbers: SPH 05/BA

	F	L (mm)	Weight (g)		Part-numbers	
			alu	tit	aluminium	titanium
Socket, metric male thread 	M 12 x 1,0	9	-	28	 SPH 05.1412/BA/L/KR	 SPH 05.1412/BA/TI/KB
					 SPH 05.1412/BA/L/KJ	 SPH 05.1412/BA/TI/KV
Socket, UNF male thread 	UNF 7/16 – 20° JIC DASH 4	14	18	29	 SPH 05.1653/BA/L/KR	 SPH 05.1653/BA/TI/KB
					 SPH 05.1653/BA/L/KJ	 SPH 05.1653/BA/TI/KV
	UNF 9/16 – 18° JIC DASH 6	14	19	27	 SPH 05.1655/BA/L/KR	 SPH 05.1655/BA/TI/KB
					 SPH 05.1655/BA/L/KJ	 SPH 05.1655/BA/TI/KV
Panel mounted socket, UNF male thread 	UNF 7/16 – 20° JIC DASH 4	26	23	36	 SPH 05.2653/BA/L/KR	 SPH 05.2653/BA/TI/KB
					 SPH 05.2653/BA/L/KJ	 SPH 05.2653/BA/TI/KV
	UNF 9/16 – 18° JIC DASH 6	26	24	38	 SPH 05.2655/BA/L/KR	 SPH 05.2655/BA/TI/KB
					 SPH 05.2655/BA/L/KJ	 SPH 05.2655/BA/TI/KV
Plug, UNF male thread 	UNF 7/16 – 20° JIC DASH 4	14	17	26	 SPH 05.7653/BA/L/KR	 SPH 05.7653/BA/TI/KB
					 SPH 05.7653/BA/L/KJ	 SPH 05.7653/BA/TI/KV
	UNF 9/16 – 18° JIC DASH 6	14	19	28	 SPH 05.7655/BA/L/KR	 SPH 05.7655/BA/TI/KB
					 SPH 05.7655/BA/L/KJ	 SPH 05.7655/BA/TI/KV

*socket/plug in connected position



Part numbers: SPH 08/BA

	F	L (mm)	Weight (g)	Part-numbers
				aluminium
Socket, UNF male thread 	UNF 9/16 – 18°JIC DASH 6	14	32	■ SPH 08.1655/BA/L/KR ■ SPH 08.1655/BA/L/KJ
	UNF 3/4 – 16°JIC DASH 8	16.5	36	■ SPH 08.1656/BA/L/KR ■ SPH 08.1656/BA/L/KJ
Panel mounted socket, UNF male thread 	UNF 9/16 – 18°JIC DASH 6	27	43	■ SPH 08.2655/BA/L/KR ■ SPH 08.2655/BA/L/KJ
	UNF 3/4 – 16°JIC DASH 8	30	46	■ SPH 08.2656/BA/L/KR ■ SPH 08.2656/BA/L/KJ
Plug, UNF male thread 	UNF 9/16 – 18°JIC DASH 6	14	29	■ SPH 08.7655/BA/L/KR ■ SPH 08.7655/BA/L/KJ
	UNF 3/4 – 16°JIC DASH 8	16.5	33	■ SPH 08.7656/BA/L/KR ■ SPH 08.7656/BA/L/KJ

*socket/plug in connected position

Part numbers construction:

with EPDM seals, add **/JE** at the end of the part numbers
 with FPM seals, add **/JV** at the end of the part numbers



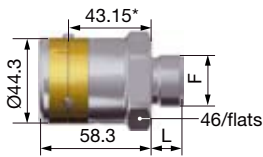
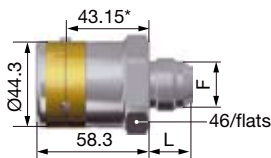
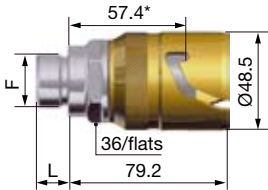
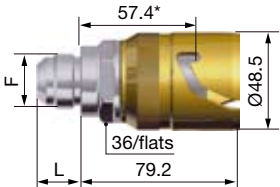
Part numbers: SPH 12/BA

	F	L (mm)	L1 (mm)	Weight (g)	Part-numbers
					aluminium
Socket, male thread 	G 1/2	14	55.9	105	■ SPH 12.1153/BA/L/KJ
Socket, UNF male thread 	UNF 7/8 - 14" JIC DASH 10	19.3	55.9	108	■ SPH 12.1657/BA/L/KJ
	UNF 1 1/16 - 12" JIC DASH 12	22	53.9	111	■ SPH 12.1658/BA/L/KJ
Plug, male thread 	G 1/2	14	72.9	91	■ SPH 12.7153/BA/L/KJ
Plug, UNF male thread 	UNF 7/8 - 14" JIC DASH 10	19.3	72.9	95	■ SPH 12.7657/BA/L/KJ
	UNF 1 1/16" JIC - DASH 12	22	66.9	95	■ SPH 12.7658/BA/L/KJ

*socket/plug in connected position



Part numbers: SPH 16/BA

	F	L (mm)	Weight (g)	Part-numbers aluminium
Socket, male thread 	G 3/4	16	167	■ SPH 16.1154/BA/L/KJ
Socket, UNF male thread 	UNF 1 1/16 – 12" JIC DASH 12	22	170	■ SPH 16.1658/BA/L/KJ
Plug, male thread 	G 3/4	16	160	■ SPH 16.7154/BA/L/KJ
Plug, UNF male thread 	UNF 1 1/16 – 12" JIC DASH 12	22	163	■ SPH 16.7658/BA/L/KJ

*socket/plug in connected position
For other threads, please consult Stäubli

Part numbers construction:

with EPDM seals, add /JE at the end of the part numbers
with FPM seals, add /JV at the end of the part numbers

We reserve the right to modify product specifications without prior notice.

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