

FAST MOVING TECHNOLOGY

*STÄUBLI*

# SPH/BA quick couplings

High pressure | Motorsports





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Flush face design

# Choose SPH/BA couplings and spend more time on the track!

## High 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.

## Quick and easy

Just push and twist to make a secure connection.

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

The flush face design ensures no air enters 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
- 3 constructions and seal types according to your fluid and application
- 5 colours for easy identification of your circuits

## Optimal flow

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

## Lightness

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

## Applications

- Shock absorbers, brake and hydraulic lines
- Lubrication and coolants



## 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

# Technical characteristics

**High strength aluminium:  
Code/L**



**Main construction in titanium:  
Code/TI**



**Main construction in stainless steel:  
Code/IA**



## 2 types of seal:

For brake fluid

- Ethylene propylene (EPDM)  
Add /JE at the end of the part number

For oils, mineral greases, nitrogen,  
gazoline...

- Fluorocarbon (FPM)  
Add /JV at the end of the part number

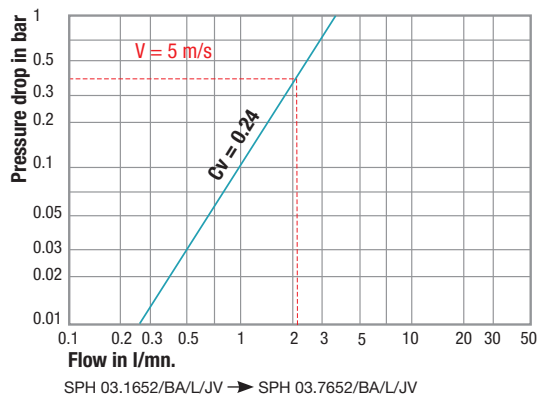


## SPH 03/BA & SPH 05/BA

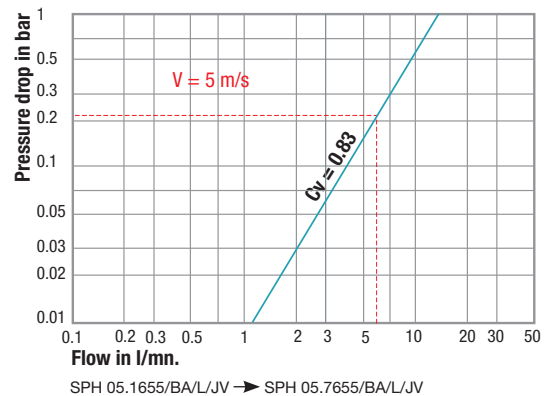
	SPH 03/BA		SPH 05/BA	
Nominal diameter DN (mm)	03		05	
Cross section (mm <sup>2</sup> )	7.1		19.6	
Shut-off system	Double		Double	
Maximum allowable pressure PS (bar)	aluminium	titanium or stainless steel	aluminium	titanium or stainless steel
	200	350	160	220

### Hydraulic charts flow rate / pressure drop

SPH 03/BA



SPH 05/BA



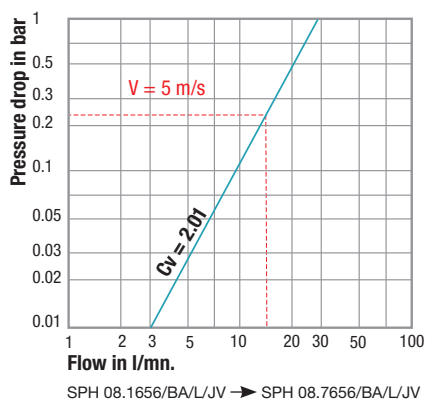
Test conditions: Water

## SPH 08/BA, SPH 12/BA & SPH 16/BA

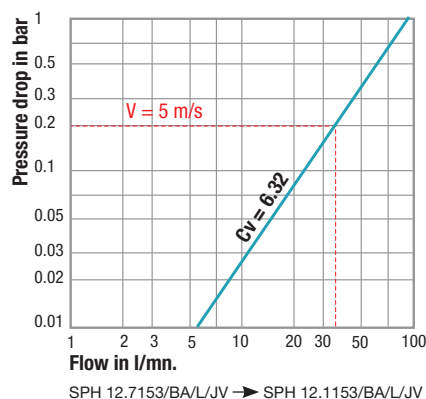
	SPH 08/BA	SPH 12/BA	SPH 16/BA
Nominal diameter DN (mm)	08	12	16
Cross section (mm <sup>2</sup> )	50.3	113	201
Shut-off system	Double	Double	Double
Maximum allowable pressure PS (bar)	aluminium	aluminium	aluminium
	80	50	50

### Hydraulic charts flow rate / pressure drop

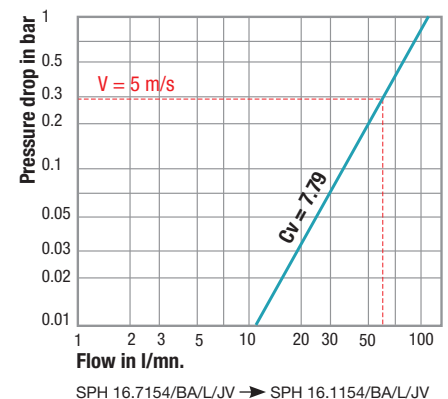
SPH 08/BA



SPH 12/BA



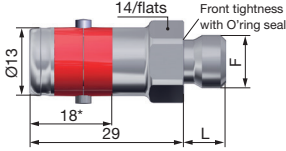
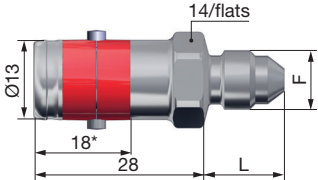
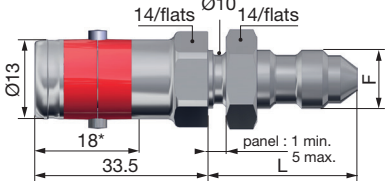
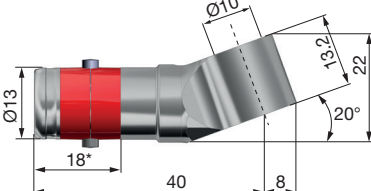
SPH 16/BA



Test conditions: Water

## PART-NUMBERS

# SPH 03/BA

	F	L (mm)	Version **	Weight (g)	Part-numbers	
<b>Socket, metric male thread</b> 	M 10 x 1,0	8	L	11	SPH 03.1410/BA/L/KR	SPH 03.1410/BA/L/KJ
			TI	16	SPH 03.1410/BA/TI/KB	SPH 03.1410/BA/TI/KV
<b>Socket, UNF male thread</b> 	UNF 3/8 – 24" JIC DASH 3	12	L	11	SPH 03.1652/BA/L/KR	SPH 03.1652/BA/L/KJ
			TI	16	SPH 03.1652/BA/TI/KB	SPH 03.1652/BA/TI/KV
			IA	27	SPH 03.1652/BA/IA	
	UNF 7/16 – 20" JIC DASH 4	14	L	12	SPH 03.1653/BA/L/KR	SPH 03.1653/BA/L/KJ
			TI	18	SPH 03.1653/BA/TI/KB	SPH 03.1653/BA/TI/KV
			IA	34	SPH 03.1653/BA/IA	
<b>Panel mounted socket, UNF male thread</b> 	UNF 3/8 – 24" JIC DASH 3	24	L	14	SPH 03.2652/BA/L/KR	SPH 03.2652/BA/L/KJ
			TI	29	SPH 03.2652/BA/TI/KB	SPH 03.2652/BA/TI/KV
			IA	37	SPH 03.2652/BA/IA	
	Banjo Connection	22	L	14.2	SPH 03.1021/BA/L/KR/BJ	SPH 03.1021/BA/L/KJ/BJ

\*socket/plug in connected position

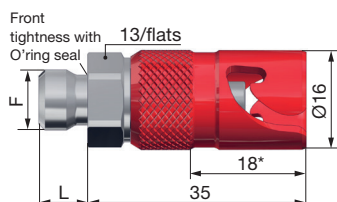
\*\*L = aluminium / TI = titanium / IA = stainless steel



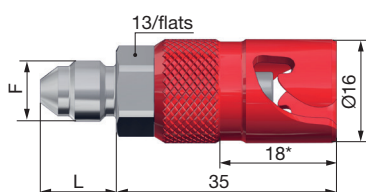
## PART-NUMBERS

# SPH 03/BA

	F	L (mm)	Version **	Weight (g)	Part-numbers	
<b>Plug, metric male thread</b>	M 10 x 1,0	8	L	11	SPH 03.7410/BA/L/KR	SPH 03.7410/BA/L/KJ



### Plug, UNF male thread



UNF 3/8 – 24° JIC DASH 3	12	L	12	SPH 03.7652/BA/L/KR	SPH 03.7652/BA/L/KJ
		TI	18	SPH 03.7652/BA/TI/KB	SPH 03.7652/BA/TI/KV
		IA	30	SPH 03.7652/BA/IA	
UNF 7/16 – 20° JIC DASH 4	14	L	12	SPH 03.7653/BA/L/KR	SPH 03.7653/BA/L/KJ
		TI	29	SPH 03.7653/BA/TI/KB	SPH 03.7653/BA/TI/KV
		IA	32	SPH 03.7653/BA/IA	

\*socket/plug in connected position

\*\*L = aluminium / TI = titanium / IA = stainless steel

### Part numbers construction:

with EPDM seals, add /JE at the end of the part number

with FPM seals, add /JV at the end of the part number

