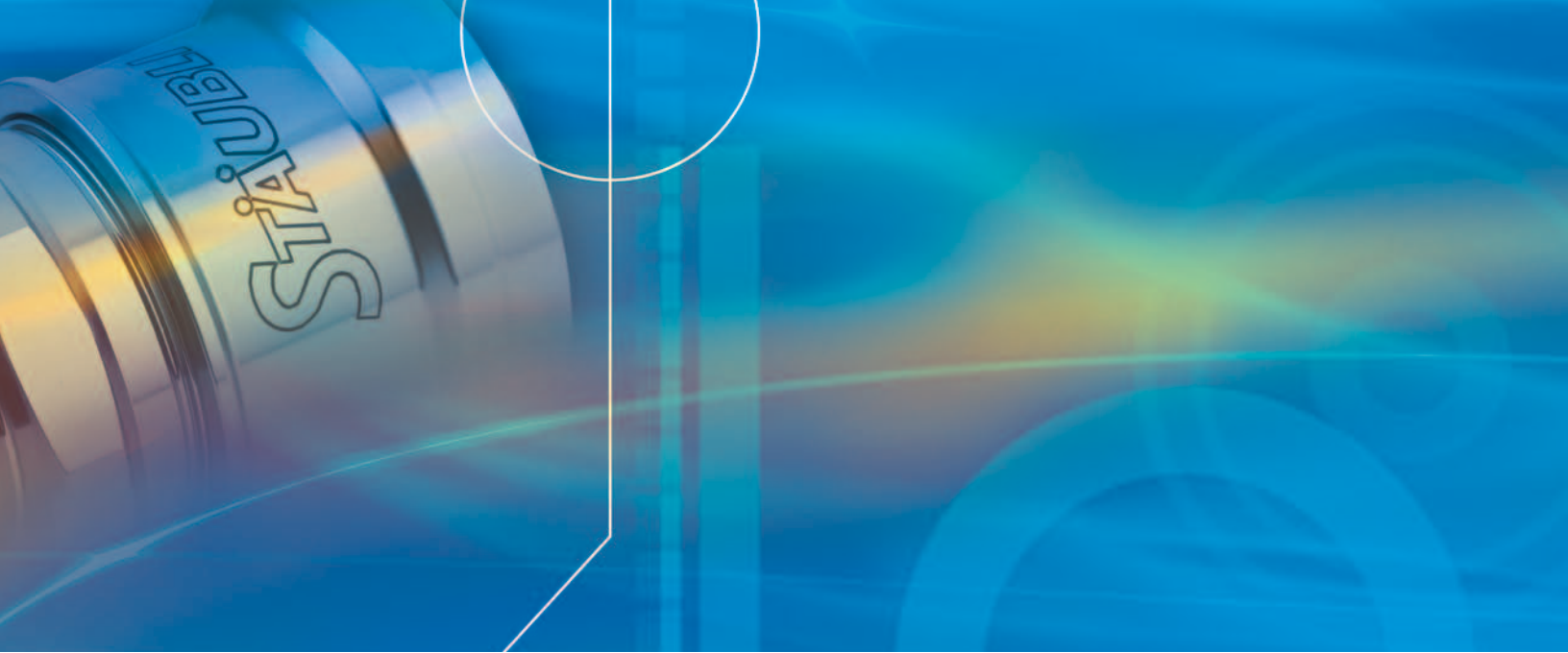


UPB All fluids

Full flow





High-quality, efficient...

Applications

Quick connections for the following circuits:

- draining,
- filling,
- fluid transfer,
- etc.

Fluids

Wide range of fluids, such as:

- liquids,
- gases,
- nitrogen,
- food products,
- chemical products,
- etc.



Safe and strong connections

Locking system using multiple ball bearings ensures strength and durability.

All-stainless steel construction

The choice of materials gives UPB connectors excellent corrosion resistance.



Even safer locking

Thanks to the anti-recoil device on the locking ring (VS option).

Easy cleaning

The high-quality surface finish (Ra 0.8) in the fluid stream allows for easy and efficient cleaning.



... and durable connections



Easy handling

Automatic coupling by simply pushing the plug into the socket for quick and easy connection.

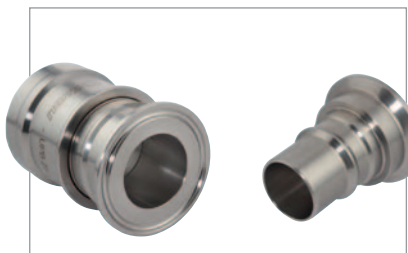
Excellent grip on the locking ring makes handling easier when wearing gloves.

Simplicity of connections

- Sockets and plugs with cylindrical BSP male threads that can be equipped with a KES sealing kit.



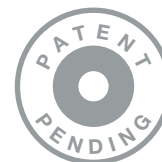
- UPB 25 available as standard with clamp profile according to ISO 2852.



Compliance with FDA and USP Class VI requirements

Connectors designed to satisfy the requirements of agri-foods and pharmaceutical industries:

- stainless steel materials,
- specific lubrication,
- FDA seals,
- USP Class VI seals.



The opportunity to spend less and contribute to a sustainable development programme
With Stäubli, you can rely on the performance of your equipment and reliability of long-term investments.



Technical characteristics

		UPB 25	UPB 33	UPB 50
Bore diameter (in.)		1"	1" 5/16	2"
Max. working pressure (psi)		290	290	290
Shut-off	Full flow			

Tightness

Seals:

- Nitrile (NBR) as standard
- Ethylene-Propylene * (EPDM)
- Ethylene-Propylene * (EPDM) for FDA or USP ** option
- Fluorocarbon (FPM)
- Perfluoroelastomer (FFKM)
- Perfluoroelastomer (FFKM) in the fluid jet and other seal in Fluorocarbon (FPM)

* **Important !** It is strongly recommended not to use or bring this seal into contact with fluids of mineral origin (oil, fat etc...).

** meets the requirements of Class VI - 158 °F in vivo tests § <88> by USP34, National Formulary 29, 2011.

Working temperatures

Types of seal	Seal code	Working temperatures (°F)
Nitrile (NBR)	no code	+ 14 to + 194
Fluorocarbon (FPM)	JV	+ 50 to + 392
Ethylene-Propylene (EPDM)	JE or JE/FDA	- 4 to + 302
	JE/USP	- 4 to + 158 ** steam: up to 302
Perfluoroelastomer (FFKM)	JK	+ 50 to + 482
Perfluoroelastomer (FFKM) in the fluid jet and other seal in Fluorocarbon (FPM)	JKV	+ 50 to + 482

Construction

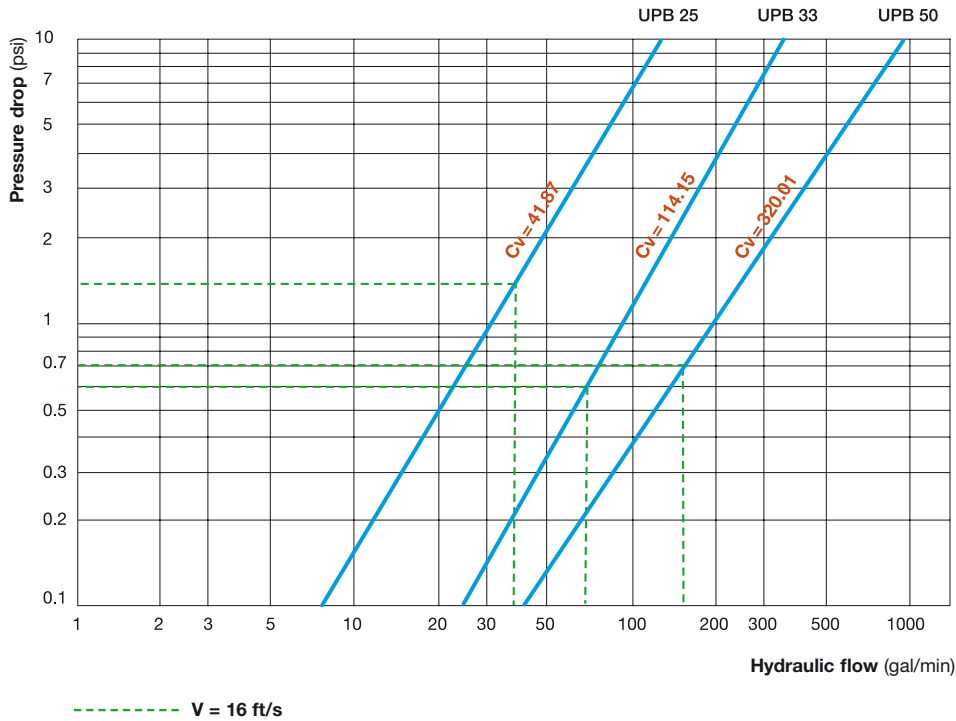
Mainly stainless steel 316 series.

For more information, consult us.

Locking balls: stainless steel 304 series.



Hydraulic flow rate / pressure drop charts

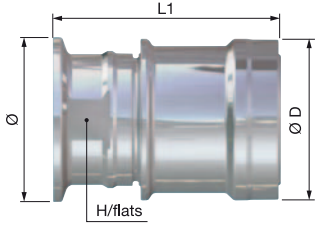
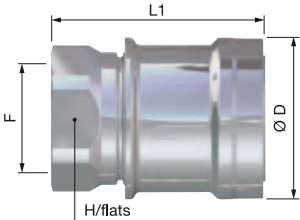
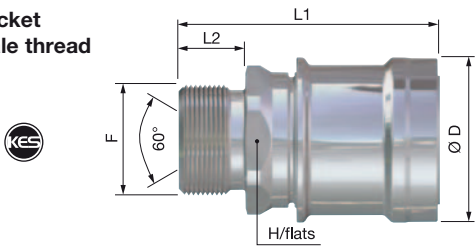


Flow (gal/min) for a speed of 16 ft/s		
UPB 25	UPB 33	UPB 50
39	68	155.5

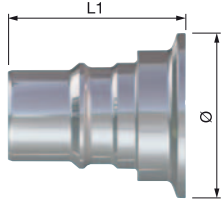
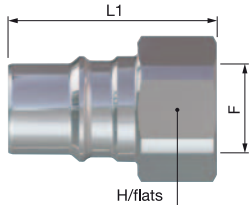
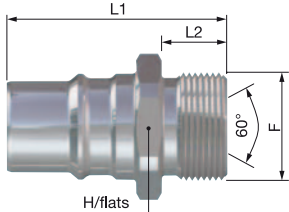
Test conditions:
 - Fluid: water
 - Direction of flow: socket → plug

Part-numbers

• Sockets

Designations	Models	Fittings F or Ø	Dimensions (in.)				Part-numbers
			ØD	L1	L2	H/flats	
1. Socket clamp profile  Clamp profile according to ISO 2852 standard	UPB 25	Ø 50 mm	1.95	2.75		1.50	UPB 25.1050/IC
2. Socket female thread 	UPB 25	G 1	1.95	2.58		1.61	UPB 25.1105/IC
	UPB 33	G 1 1/4	2.46	2.85		2.17	UPB 33.1106/IC
	UPB 50	G 2	3.33	3.31		2.95	UPB 50.1108/IC
3. Socket male thread 	UPB 25	G 1	1.95	3.08	0.79	1.61	UPB 25.1155/IC
	UPB 33	G 1 1/4	2.46	3.50	0.83	2.17	
	UPB 50	G 2	3.33	4.17	1.02	2.95	UPB 50.1158/IC

• Plugs

Designations	Models	Fittings F or Ø	Dimensions (in.)			Part-numbers
			L1	L2	H/flats	
1. Plug clamp profile  Clamp profile according to ISO 2852 standard	UPB 25	Ø 50 mm	2.15			UPB 25.6050/IC
2. Plug female thread 	UPB 25	G 1	2.52		1.61	UPB 25.6105/IC
	UPB 33	G 1 1/4	2.78		1.97	UPB 33.6106/IC
	UPB 50	G 2	3.27		2.76	UPB 50.6108/IC
3. Plug male thread 	UPB 25	G 1	2.66	1.79	1.61	UPB 25.6155/IC
	UPB 33	G 1 1/4	2.97	0.83	1.97	UPB 33.6156/IC
	UPB 50	G 2	3.56	1.02	2.76	UPB 50.6158/IC

Other fittings: consult us

How to build your part-numbers

- Seals materials

All sockets are fitted with a Nitrile seal as standard.

Other seal material: add the required code at the end of the part-numbers:

- **/JE** code: Ethylene-Propylene seal
- **/JV** code: Fluorocarbon seal
- **/JK** code: Perfluoroelastomer seal
- **/JKV** code: Perfluoroelastomer seal in the fluid - other seal in Fluorocarbon

- FDA or USP option

Sockets and plugs FDA or USP Class VI (only available with Ethylene-Propylene seal).

Add at the end of the part-numbers:

- for the sockets: the **/JE/FDA** or **/JE/USP** code
- for the plugs: the **/FDA** or **/USP** code.

- Safety locking option

Add the **/VS** code to the socket part-numbers.

KES sealing-kit (to be ordered separately)


Composed of a retaining ring and an O-ring seal, the KES kits ensure a perfect sealing between the socket and your support.

The KES rings are fitted with a Nitrile seal as standard.
Other seal material: add to the opposite part-numbers the code corresponding to the required seal material:

- Ethylene-Propylene: **/JE** code
- Fluorocarbon: **/JV** code
- Perfluoroelastomer: **/JK** code

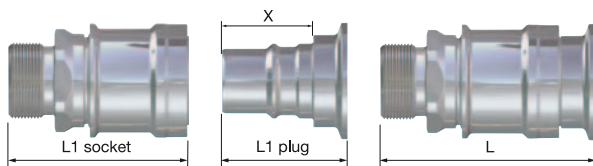
KES kit for FDA or USP option: add the **/JE/FDA** or **/JE/USP** to the opposite part-numbers.

This type of sealing is available on all the cylindrical BSP male sockets and plugs.

KES sealing-kit	Models	Part-numbers
	G 1	KES 01.9105/IC
	G 1 1/4	KES 01.9106/IC
	G 2	KES 01.9108/IC

Overall dimensions in connected position

$$L = (L1 \text{ socket} + L1 \text{ plug}) - X$$



Models	X (in.)
UPB 25	1.56
UPB 33	1.75
UPB 50	1.99

Belgium, Luxembourg

Tel.: +32 56 36 40 03
connectors.be@staubli.com

Brazil

Tel.: +55 11 2348 7400
connectors.br@staubli.com

China

Tel.: +86 40066 70066
connectors.cn@staubli.com

**Czech Republic,
Slovakia, Hungary**

Tel.: +420 466 616 125
connectors.cz@staubli.com

France

Tel.: +33 1 69 93 25 00
srf@staubli.com

**Germany, Austria,
Denmark**

Tel.: +49 921 883 0
connectors.de@staubli.com

Hong Kong

Tel.: +852 2366 0660
connectors.hk@staubli.com

India

Tel.: +91 22 2823 93 43 / 45
connectors.in@staubli.com

Italy

Tel.: +39 0362 944.1
connectors.it@staubli.com

Japan

Tel.: +81 6 6889 3308
connectors.stkk@staubli.com

North America

(USA, Canada, Mexico)
Tel.: +1 864 433 1980
connectors.usa@staubli.com

Poland

Tel.: +48 42 636 85 04
connectors.pl@staubli.com

Portugal

Tel.: +351 22 978 39 56/50
connectors.pt@staubli.com

Romania, Bulgaria

Tel.: +40 374 040 494
connectors.ro@staubli.com

Russia

Tel.: + 7 812 3344630
connectors.ru@staubli.com

Singapore

Tel.: +65 6266 0900
connectors.sg@staubli.com

Slovenia, Croatia

Tel.: +386 8 205 01 05
connectors.si@staubli.com

South Korea

Tel.: +82 53 753 0044
connectors.kr@staubli.com

Spain

Tel.: +34 93 720 54 05
connectors.es@staubli.com

Switzerland

Tel.: +41 43 244 22 33
connectors.ch@staubli.com

Taiwan

Tel.: +886 2 8797 7795
connectors.tw@staubli.com

Turkey

Tel.: +90 212 472 13 00
connectors.tr@staubli.com

United Kingdom

Tel.: +44 1952 671918
connectors.uk@staubli.com

www.staubli.com



■ Staubli units
○ Connectors distributors

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

Staubli is a trademark of Stäubli International AG, registered in Switzerland and other countries.

© Staubli.09/07/2018

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

RC1660600C