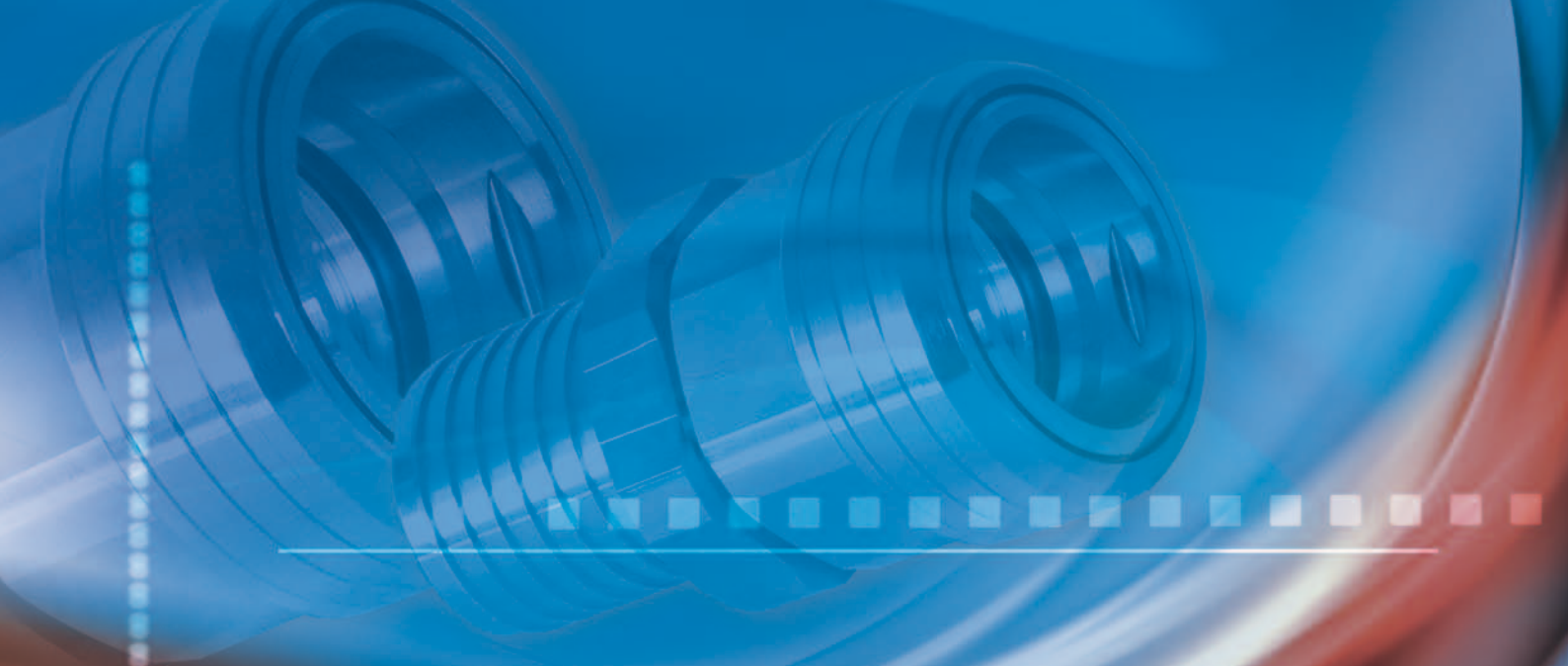


**GPL full flow quick-release coupling**  
All fluids





## Applications

All types of industry.  
 Supply to primary circuits of heat transfer fluids.

- Large compressed air circuits
- Water
- Gases etc.

A version specifically for railway applications is also available.

## Protected sealing

The standard O-ring made of Nitrile elastomer ensures sealing in a protected zone of the connecting plug.

## Technical features

	GPL 25	GPL 33	GPL 50
<b>Bore diameter</b> (mm)	25	33	50
<b>Bore section</b> (mm <sup>2</sup> )	490	855	1963
<b>Max. working pressure</b> (bar)	10	10	10
<b>Weight of socket</b> (kg)	0.680	0.940	1.900
<b>Weight of plug</b> (kg)	0.250	0.350	0.900

## Sealing

	Max. working temperatures
• Standard Nitrile seal (NBR)	-15 °C to +90 °C
• Fluorocarbon seal (FPM)	-10 °C to +90 °C
• Ethylene-Propylene seal (EPDM)	-20 °C to +90 °C

## The GPL quick-release coupling is designed for many activity sectors and used for thermoregulation applications.

GPL couplings provide a compact and economic solution for high flow circuit connection.

The ergonomic design of the GPL coupling and its automatic needle locking system make it extremely durable and guarantee its long-term reliability.

## Flexible and reliable automatic locking system

The GPL's automatic locking system gives extra manoeuvrability. Just one push of the plug into the socket ensures that the connected assembly is completely locked.

## A robust connecting plug

A steel plug designed to effectively withstand shocks in a fixed position or fitted to hoses.



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.

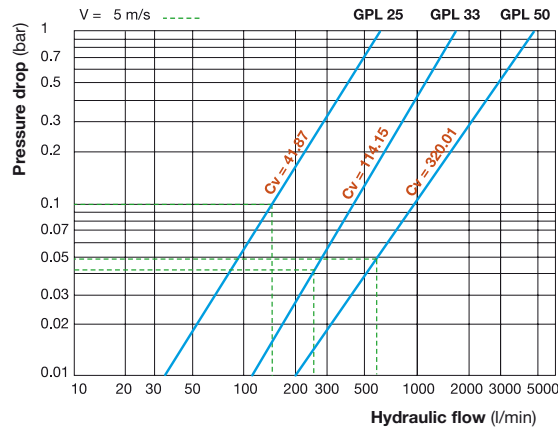
## Construction

- Socket
  - Socket body and main components made of chrome-plated brass.
  - Spring and needle locking system made of stainless steel.
  - Standard seal made of Nitrile elastomer.
- Plug
  - Plug connecting made of high strength treated steel.
  - Hard chemical nickel plating protection.

# Hydraulic charts for flow / pressure drop

## Test conditions:

- Fluid: water
- Direction of flow  
 GPL 25 : plug → socket  
 GPL 33 and GPL50 : socket → plug



## Part-numbers

Descriptions	Models	Thread F or in. hose Ø	Ø D	Dimensions (mm)		Part-numbers
				L	H/flats	
<b>Socket female thread</b> 	GPL 25	G 1	57	57	46	GPL 25.1105 *
		NPT 1	57	57	46	GPL 25.1205 *
	GPL 33	G 1 1/4	65	62	54	GPL 33.1106 *
	GPL 50	G 2	89	70	77	GPL 50.1108 *
<b>Socket male thread</b> 	GPL 25	G 1	57	88	40	GPL 25.1155 *
		G 1 1/4	57	98	50	GPL 25.1156 *
	GPL 33	G 1 1/4	65	93	50	GPL 33.1156 *
	GPL 50	G 2	89	111	82	GPL 50.1158 *
<b>Socket for rubber hose</b> 	GPL 25	30 mm	57	108		GPL 25.1830 *
	GPL 33	40 mm	65	115		GPL 33.1840 *
	GPL 50	50 mm	89	130		GPL 50.1850 *
<b>Plug female thread</b> 	GPL 25	G 1	45	61	41	GPL 25.6105
	GPL 33	G 1 1/4	55	66	50	GPL 33.6106
	GPL 50	G 2	75	78	71	GPL 50.6108
<b>Plug male thread</b> 	GPL 25	G 1	45	92	40	GPL 25.6155
		G 1 1/4	57	102	50	GPL 25.6156
		NPT 1	45	66	41	GPL 25.6255
	GPL 33	G 1 1/4	55	97	50	GPL 33.6156
	GPL 50	G 2	75	119	70	GPL 50.6158
<b>Plug for rubber hose</b> 	GPL 25	30 mm	45	93		GPL 25.6830
	GPL 33	40 mm	57	119		GPL 33.6840
	GPL 50	50 mm	75	138		GPL 50.6850

\* Part numbers also available with Fluorocarbon (FPM) and Ethylene Propylene seals (EPDM):

- Fluorocarbon seals: add code **/JV** at the end of the part numbers.
- Ethylene Propylene seals: add code **/JE** at the end of the part numbers.

## Accessories

Male threaded plugs (chrome-plated brass)	Models	Thread F	Ø	Ø D	Dimensions (mm)			Part-numbers
					L	L1	H/flats	
	GPL 25	G 1	35	45	70	19	40	AF 155.30/LN
	GPL 33	G 1 1/4	40	57	69	21	50	AF 156.38/LN
	GPL 50	G 2	50	75	85	25	70	AF 158.50/LN

Protective dust-cap for socket	Models		Part-numbers
	GPL 25		GPL 25.8500
	GPL 33		GPL 33.8500
	GPL 50		GPL 50.8500

For contact details: [www.staubli.com/connectors/contacts](http://www.staubli.com/connectors/contacts)



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