

FAST MOVING TECHNOLOGY

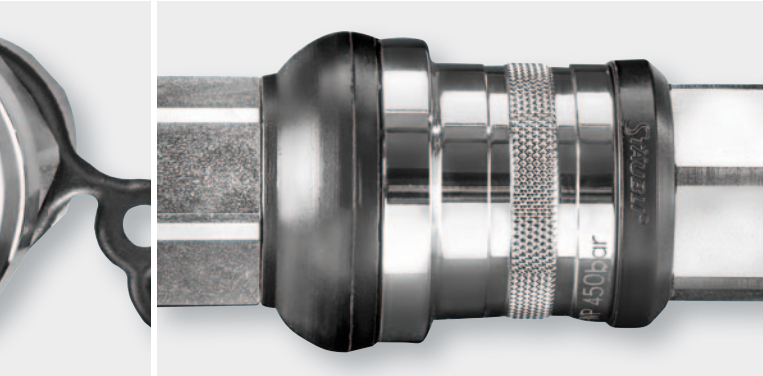
*STÄUBLI*

# SPX quick coupling

Hydraulic | High pressure







Dust protection option



Colour option on panel mounting versions

**Clean-break**

Flush-face, non-spill technology for the efficient protection of hydraulic circuits and the working environment:

- No pollution of hydraulic circuits due to penetration by external agents.
- No pollution of the working environment due to spillage of hydraulic fluid.

**Easy connection**

A large guiding cone on the front face of the socket plays an important role in pre-centring the plug for "blind" connection.

**Performant design**

With a particularly robust locking, the SPX range ensures a reliable connection even in harsh environments.

**Ergonomic and automatic**

The ergonomic shape of the socket sleeve provides a good grip for disconnection. Connection and disconnection are done one-handed.

**3D models**

Available on request, for a perfect connection integration in projects from their conception.

**Applications**

High pressure hydraulic circuits connections.







The opportunity to spend less and contribute to a sustainable development programme

With Stäubli rely on:

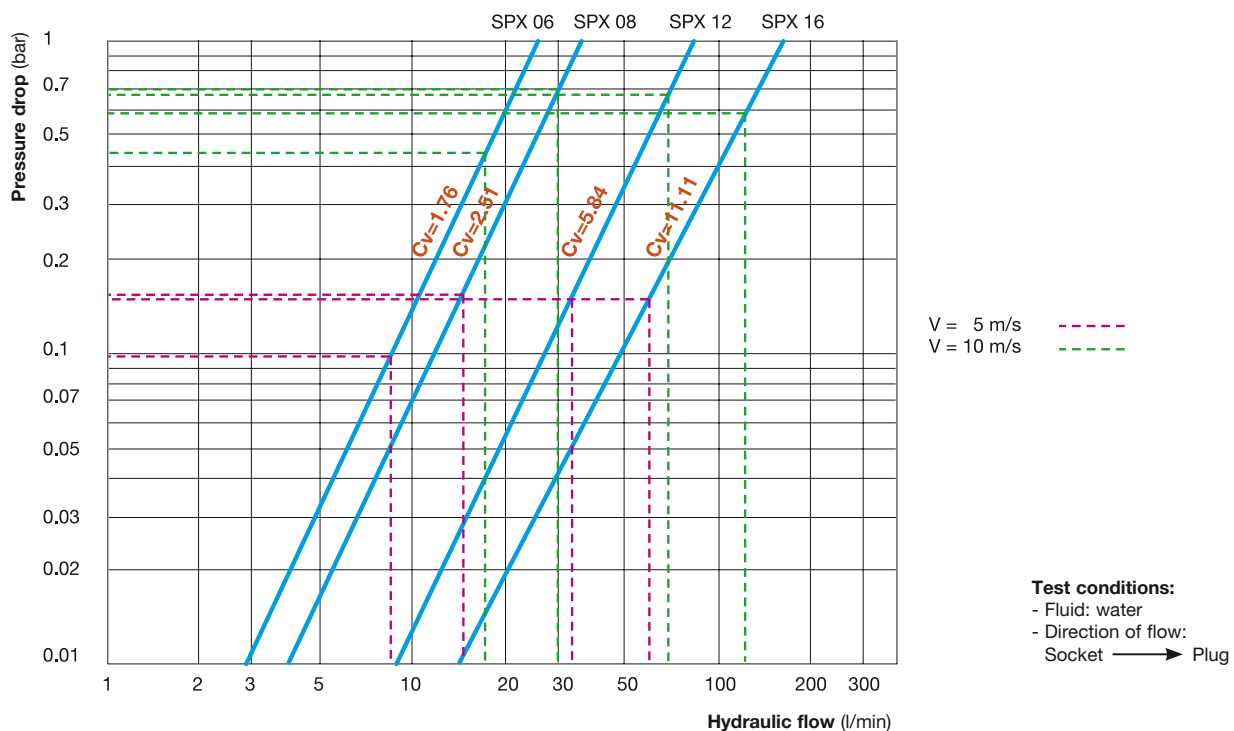
- the performance of the equipment,
- reliability of long-term investments,
- no workplace pollution.

# Technical characteristics

		SPX 06	SPX 08	SPX 12	SPX 16
<b>Nominal diameter DN (mm)</b>		6	8	12	16
<b>Maximum allowable pressure PS (bar)</b>		450	450	350	350
<b>Shut-off</b>	double				
<b>Flow (l/min) for speed 5 m/s</b>		8.5	15	34	60
<b>Flow (l/min) for speed 10 m/s</b>		17	30	68	120
<b>Maximum allowable residual pressure with socket under residual pressure (bar)</b> Socket SPX xx /PA -> Plug SPX xx		-	150	150	150
<b>Maximum allowable residual pressure with plug under residual pressure (bar)</b> Plug SPX xx /PA -> Socket SPX xx		40	90	35	60

For a fluid speed comprised between 5 and 10 m/s, the max. allowable temperature must not exceed 60 °C.

## Hydraulic flow rate / pressure drop charts



# Options

	Description	Code *	Allowable temperatures TS (°C)		Construction
			Minimum	Maximum	
<b>Construction</b>	Standard	<b>no code</b>			High mechanical strength stainless steel
	Corrosive environment	<b>IB</b>			High mechanical strength and high corrosion resistance stainless steel

<b>Tightness</b>	Oils - greases	<b>no code</b>	- 15	+ 100	Nitrile (NBR)
		<b>JV</b>	- 10	+ 150	Fluorocarbon (FPM)
	Skydrol®	<b>41B8</b>	- 15	+ 150	Ethylene-Propylene (EPDM)

Important! It is strongly recommended not to use or bring EPDM seals into contact with fluids of mineral origin (oil, grease, etc...).

<b>Connection under pressure</b>	Residual pressure relief device	<b>PA</b>			Brass Stainless steel
			The min. and max. temperatures depends on the seals selected previously.		

<b>Colour identification</b>	Colourless	<b>no code</b>
	Red	<b>KR</b>
	Blue	<b>KB</b>

<b>Protective dust caps</b>	Standard	<b>no code</b>	- 20	+ 100	Chloroprene (CR) and POM
	Metallic red	<b>BMR</b>	- 30	+ 150	OAD aluminum and stainless steel cable

<b>Dust protection</b>	Protector	<b>PP **</b>	- 10	+ 150	Fluorocarbon (FPM)

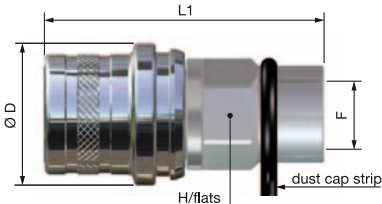
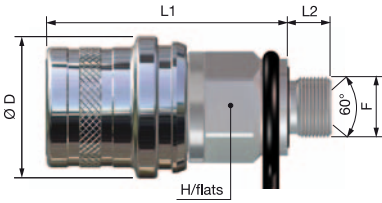
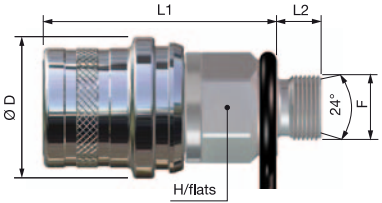
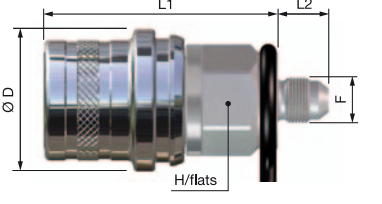
<b>Safety locking</b>	Safety sleeve	<b>VS **</b>	- 20	+ 100	PA66 and stainless steel cable
			Socket side only.		

\* Add the option codes to the part-numbers (pages 6 to 10). Example: SPX 08.1103/**JV/PA/BMR**.

\*\* PP and VS options cannot be combined and are only available for Mono versions.

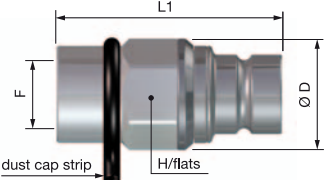
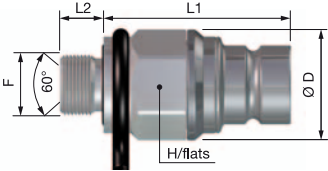
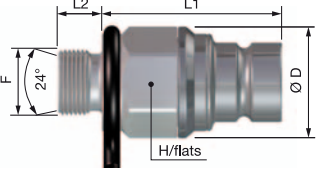
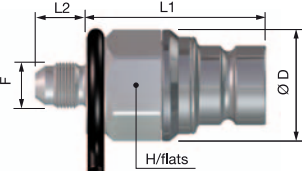
# Part numbers

## Sockets

Description	Model	Fitting	Dimensions (mm)				Part numbers	
			ØD	L1	L2	H/flats		
<b>Female thread</b>   <p>(a) UN thread according to SAE J 1926-1</p>	<b>SPX 06</b>	G 3/8	39	77		27	<b>SPX 06.1102</b>	
		NPT 3/8	39	75		27	<b>SPX 06.1202</b>	
		UN 9/16-18 (a)	39	77		27	<b>SPX 06.1314</b>	
	<b>SPX 08</b>	G 1/2	47	90		32	<b>SPX 08.1103</b>	
		NPT 1/2	47	88		32	<b>SPX 08.1203</b>	
		UN 3/4-16 (a)	47	88		32	<b>SPX 08.1319</b>	
	<b>SPX 12</b>	G 3/4	59	103		41	<b>SPX 12.1104</b>	
		NPT 3/4	59	99		41	<b>SPX 12.1204</b>	
		UN 1 1/16-12 (a)	59	104		41	<b>SPX 12.1327</b>	
	<b>SPX 16</b>	G 3/4	69	117		50	<b>SPX 16.1104</b>	
		G 1	69	119.5		50	<b>SPX 16.1105</b>	
		NPT 3/4	69	114		50	<b>SPX 16.1204</b>	
		NPT 1	69	120		50	<b>SPX 16.1205</b>	
		UN 1 5/16-12 (a)	69	119		50	<b>SPX 16.1333</b>	
	<b>BSP male thread with 60° cone and sealing with front O-ring seal</b>  	<b>SPX 06</b>	G 3/8	39	66.5	12	27	<b>SPX 06.1152</b>
		<b>SPX 08</b>	G 1/2	47	76	14	32	<b>SPX 08.1153</b>
<b>SPX 12</b>		G 3/4	59	90	16	41	<b>SPX 12.1154</b>	
<b>SPX 16</b>		G 3/4	69	105	16	50	<b>SPX 16.1154</b>	
<b>Male thread for hydraulic pipes 24° cone according to ISO 8434-1 S series</b>  	<b>SPX 06</b>	M 18 x 1.5 for pipes outside Ø 10 mm	39	64	12	27	<b>SPX 06.1610</b>	
		M 20 x 1.5 for pipes outside Ø 12 mm	47	75	12	32	<b>SPX 08.1612</b>	
	<b>SPX 08</b>	M 24 x 1.5 for pipes outside Ø 16 mm	47	75	14	32	<b>SPX 08.1616</b>	
		M 24 x 1.5 for pipes outside Ø 16 mm	59	88	14	41	<b>SPX 12.1616</b>	
	<b>SPX 12</b>	M 30 x 2 for pipes outside Ø 20 mm	59	88	16	41	<b>SPX 12.1620</b>	
		M 30 x 2 for pipes outside Ø 20 mm	69	105	16	50	<b>SPX 16.1620</b>	
<b>SPX 16</b>	M 36 x 2 for pipes outside Ø 25 mm	69	105	18	50	<b>SPX 16.1625</b>		
	M 36 x 2 for pipes outside Ø 25 mm	69	105	18	50	<b>SPX 16.1625</b>		
<b>Male thread JIC 37° according to ISO 8434-2</b>  	<b>SPX 06</b>	UN 1/2 - 20 (DASH 5)	39	65	14	27	<b>SPX 06.1654</b>	
	<b>SPX 08</b>	UN 3/4 - 16 (DASH 8)	47	75	17	32	<b>SPX 08.1656</b>	
	<b>SPX 12</b>	UN 7/8 - 14 (DASH 10)	59	88	19.5	41	<b>SPX 12.1657</b>	
	<b>SPX 16</b>	UN 1 1/16 - 12 (DASH 12)	69	105	22	50	<b>SPX 16.1658</b>	

All sockets are delivered as standard with a protective dust cap.

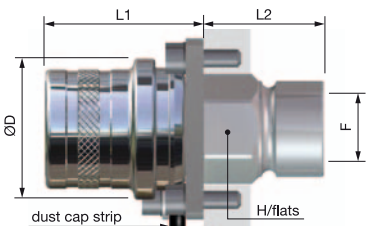
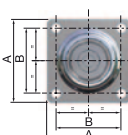
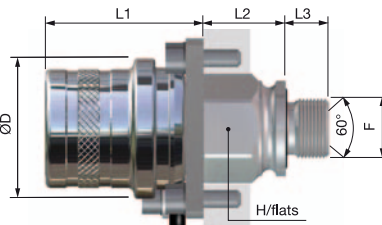
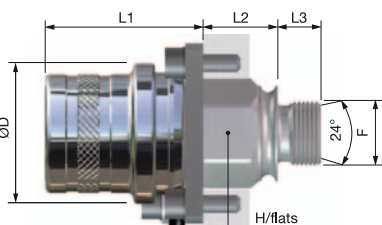
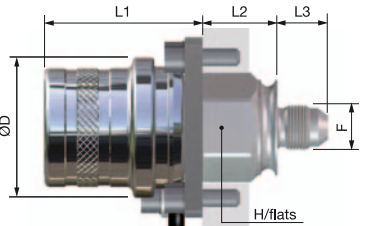
## Plugs

Description	Model	Fitting	Dimensions (mm)				Part numbers
			ØD	L1	L2	H/flats	
<b>Female thread</b>   <p>(a) UN thread according to SAE J 1926-1</p>	<b>SPX 06</b>	G 3/8	30.5	62		27	<b>SPX 06.7102</b>
		NPT 3/8	30.5	60		27	<b>SPX 06.7202</b>
		UN 9/16-18 (a)	30.5	62		27	<b>SPX 06.7314</b>
	<b>SPX 08</b>	G 1/2	35.5	73		32	<b>SPX 08.7103</b>
		NPT 1/2	35.5	70		32	<b>SPX 08.7203</b>
		UN 3/4-16 (a)	35.5	70		32	<b>SPX 08.7319</b>
	<b>SPX 12</b>	G 3/4	46	84		41	<b>SPX 12.7104</b>
		NPT 3/4	46	80		41	<b>SPX 12.7204</b>
		UN 1 1/16-12 (a)	46	85		41	<b>SPX 12.7327</b>
	<b>SPX 16</b>	G 3/4	56.5	94		50	<b>SPX 16.7104</b>
		G 1	56.5	97		50	<b>SPX 16.7105</b>
		NPT 3/4	56.5	91		50	<b>SPX 16.7204</b>
		NPT 1	56.5	97		50	<b>SPX 16.7205</b>
		UN 1 5/16-12 (a)	56.5	97		50	<b>SPX 16.7333</b>
	<b>BSP male thread with 60° cone and sealing with front O-ring seal</b>  	<b>SPX 06</b>	G 3/8	30.5	52	12	27
<b>SPX 08</b>		G 1/2	35.5	59	14	32	<b>SPX 08.7153</b>
<b>SPX 12</b>		G 3/4	46	71	16	41	<b>SPX 12.7154</b>
<b>SPX 16</b>		G 3/4	56.5	83	16	50	<b>SPX 16.7154</b>
<b>Male thread for hydraulic pipes 24° cone according to ISO 8434-1 S series</b>  	<b>SPX 06</b>	M 18 x 1.5 for pipes outside Ø 10 mm	30.5	50	12	27	<b>SPX 06.7610</b>
		M 20 x 1.5 for pipes outside Ø 12 mm	35.5	58	12	32	<b>SPX 08.7612</b>
	<b>SPX 08</b>	M 24 x 1.5 for pipes outside Ø 16 mm	35.5	58	14	32	<b>SPX 08.7616</b>
		M 24 x 1.5 for pipes outside Ø 16 mm	46	69	14	41	<b>SPX 12.7616</b>
	<b>SPX 12</b>	M 30 x 2 for pipes outside Ø 20 mm	46	69	16	41	<b>SPX 12.7620</b>
		M 30 x 2 for pipes outside Ø 20 mm	56.5	83	16	50	<b>SPX 16.7620</b>
		M 36 x 2 for pipes outside Ø 25 mm	56.5	83	18	50	<b>SPX 16.7625</b>
<b>Male thread JIC 37° according to ISO 8434-2</b>  	<b>SPX 06</b>	UN 1/2 - 20 (DASH 5)	30.5	50	14	27	<b>SPX 06.7654</b>
	<b>SPX 08</b>	UN 3/4 - 16 (DASH 8)	35.5	58	17	32	<b>SPX 08.7656</b>
	<b>SPX 12</b>	UN 7/8 - 14 (DASH 10)	46	69	19.5	41	<b>SPX 12.7657</b>
	<b>SPX 16</b>	UN 1 1/16 - 12 (DASH 12)	56.5	83	22	50	<b>SPX 16.7658</b>

All plugs are delivered as standard with a protective dust cap.

# Part numbers

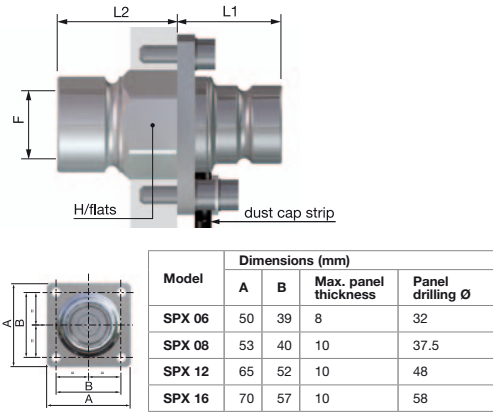
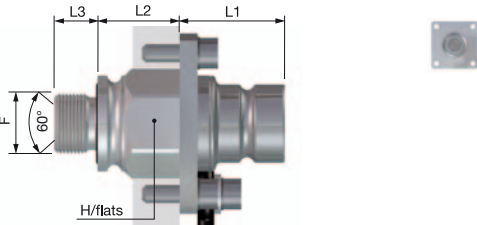
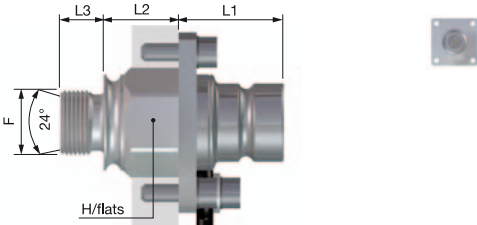
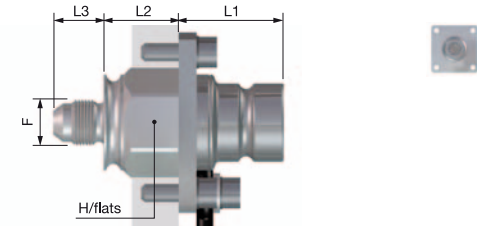
## Panel mounted sockets - Mono version

Description	Model	Fitting	Dimensions (mm)					Part numbers																													
			ØD	L1	L2	L3	H/flats																														
<b>Plates fitted with a socket female thread</b>   <table border="1" data-bbox="271 716 622 884"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="4">Dimensions (mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>Max. panel thickness</th> <th>Panel drilling Ø</th> </tr> </thead> <tbody> <tr> <td>SPX 06</td> <td>50</td> <td>39</td> <td>8</td> <td>32</td> </tr> <tr> <td>SPX 08</td> <td>53</td> <td>40</td> <td>10</td> <td>37.5</td> </tr> <tr> <td>SPX 12</td> <td>65</td> <td>52</td> <td>10</td> <td>48</td> </tr> <tr> <td>SPX 16</td> <td>70</td> <td>57</td> <td>10</td> <td>58</td> </tr> </tbody> </table> <p>(a) UN thread according to SAE J 1926-1</p>	Model	Dimensions (mm)				A	B	Max. panel thickness	Panel drilling Ø	SPX 06	50	39	8	32	SPX 08	53	40	10	37.5	SPX 12	65	52	10	48	SPX 16	70	57	10	58	SPX 06	G 3/8	39	44	33.5		27	SPX 06.2102
		Model	Dimensions (mm)																																		
	A		B	Max. panel thickness	Panel drilling Ø																																
	SPX 06	50	39	8	32																																
	SPX 08	53	40	10	37.5																																
	SPX 12	65	52	10	48																																
	SPX 16	70	57	10	58																																
	NPT 3/8	39	44	31.5		27	SPX 06.2202																														
	UN 9/16-18 (a)	39	44	33.5		27	SPX 06.2314																														
	SPX 08	G 1/2	47	50	40.5		32	SPX 08.2103																													
		NPT 1/2	47	50	38		32	SPX 08.2203																													
		UN 3/4-16 (a)	47	50	38		32	SPX 08.2319																													
	SPX 12	G 3/4	59	58	45.5		41	SPX 12.2104																													
		NPT 3/4	59	58	41.5		41	SPX 12.2204																													
		UN 1 1/16-12 (a)	59	58	46		41	SPX 12.2327																													
	SPX 16	G 3/4	69	68	49		50	SPX 16.2104																													
G 1		69	68	52		50	SPX 16.2105																														
NPT 3/4		69	68	46		50	SPX 16.2204																														
NPT 1		69	68	52		50	SPX 16.2205																														
UN 1 5/16-12 (a)		69	68	51		50	SPX 16.2333																														
<b>Plates fitted with a socket BSP male thread with 60° cone and sealing with front O-ring seal</b> 	SPX 06	G 3/8	39	44	22.8	12	27	SPX 06.2152																													
	SPX 08	G 1/2	47	50	26.5	14	32	SPX 08.2153																													
	SPX 12	G 3/4	59	58	32.5	16	41	SPX 12.2154																													
	SPX 16	G 3/4	69	68	37.5	16	50	SPX 16.2154																													
<b>Plates fitted with a socket male thread for hydraulic pipes 24° cone according to ISO 8434-1 S series</b> 	SPX 06	M 18 x 1.5 for pipes outside Ø 10 mm	39	44	21	12	27	SPX 06.2610																													
	SPX 08	M 20 x 1.5 for pipes outside Ø 12 mm	47	50	25.5	12	32	SPX 08.2612																													
		M 24 x 1.5 for pipes outside Ø 16 mm	47	50	25.5	14	32	SPX 08.2616																													
	SPX 12	M 24 x 1.5 for pipes outside Ø 16 mm	59	58	30.5	14	41	SPX 12.2616																													
		M 30 x 2 for pipes outside Ø 20 mm	59	59	30.5	16	41	SPX 12.2620																													
	SPX 16	M 30 x 2 for pipes outside Ø 20 mm	69	68	37.5	16	50	SPX 16.2620																													
		M 36 x 2 for pipes outside Ø 25 mm	69	68	37.5	18	50	SPX 16.2625																													
<b>Plates fitted with a socket male thread JIC 37° according to ISO 8434-2</b> 	SPX 06	UN 1/2 - 20 (DASH 5)	39	44	21	14	27	SPX 06.2654																													
	SPX 08	UN 3/4 - 16 (DASH 8)	47	50	25.5	17	32	SPX 08.2656																													
	SPX 12	UN 7/8 - 14 (DASH 10)	59	58	30.5	19,5	41	SPX 12.2657																													
	SPX 16	UN 1 1/16 - 12 (DASH 12)	69	68	37	22	50	SPX 16.2658																													

All sockets are delivered as standard with a protective dust cap.



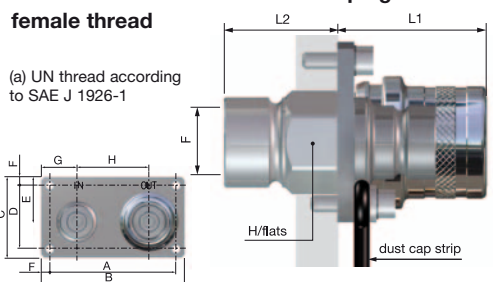
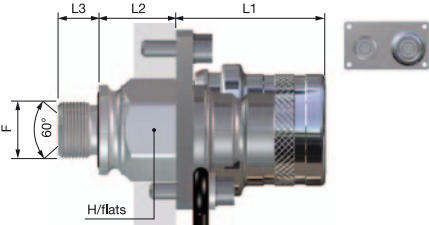
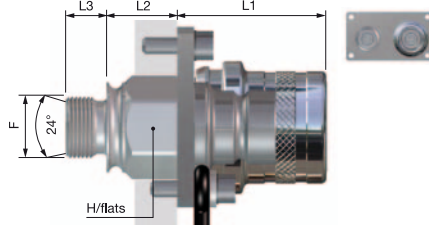
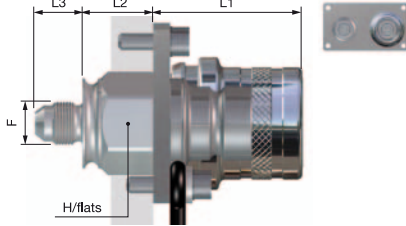
## Panel mounted plugs - Mono version

Description	Model	Fitting	Dimensions (mm)				Part numbers																												
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<b>Plates fitted with a plug female thread</b>  <table border="1" data-bbox="271 716 622 884"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="3">Dimensions (mm)</th> <th rowspan="2">Panel drilling Ø</th> </tr> <tr> <th>A</th> <th>B</th> <th>Max. panel thickness</th> </tr> </thead> <tbody> <tr> <td>SPX 06</td> <td>50</td> <td>39</td> <td>8</td> <td>32</td> </tr> <tr> <td>SPX 08</td> <td>53</td> <td>40</td> <td>10</td> <td>37.5</td> </tr> <tr> <td>SPX 12</td> <td>65</td> <td>52</td> <td>10</td> <td>48</td> </tr> <tr> <td>SPX 16</td> <td>70</td> <td>57</td> <td>10</td> <td>58</td> </tr> </tbody> </table> <p>(a) UN thread according to SAE J 1926-1</p>	Model	Dimensions (mm)			Panel drilling Ø	A	B	Max. panel thickness	SPX 06	50	39	8	32	SPX 08	53	40	10	37.5	SPX 12	65	52	10	48	SPX 16	70	57	10	58	SPX 06	G 3/8	29	33.5		27	SPX 06.5102
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	SPX 16	70	57	10	58																														
			NPT 3/8	29	31.5		27	SPX 06.5202																											
			UN 9/16-18 (a)	29	33.5		27	SPX 06.5314																											
		SPX 08	G 1/2	33	40.5		32	SPX 08.5103																											
			NPT 1/2	33	38		32	SPX 08.5203																											
			UN 3/4-16 (a)	33	38		32	SPX 08.5319																											
		SPX 12	G 3/4	39.5	45.5		41	SPX 12.5104																											
			NPT 3/4	39.5	41.5		41	SPX 12.5204																											
			UN 1 1/16-12 (a)	39.5	46.5		41	SPX 12.5327																											
		SPX 16	G 3/4	46	49		50	SPX 16.5104																											
		G 1	46	52		50	SPX 16.5105																												
		NPT 3/4	46	46		50	SPX 16.5204																												
		NPT 1	46	52		50	SPX 16.5205																												
		UN 1 5/16-12 (a)	46	51		50	SPX 16.5333																												
<b>Plates fitted with a plug BSP male thread with 60° cone and sealing with front O-ring seal</b> 	SPX 06	G 3/8	29	23	12	27	SPX 06.5152																												
	SPX 08	G 1/2	33	26.5	14	32	SPX 08.5153																												
	SPX 12	G 3/4	39.5	32.5	16	41	SPX 12.5154																												
	SPX 16	G 3/4	46	37.5	16	50	SPX 16.5154																												
<b>Plates fitted with a plug male thread for hydraulic pipes 24° cone according to ISO 8434-1 S series</b> 	SPX 06	M 18 x 1.5 for pipes outside Ø 10 mm	29	21	12	27	SPX 06.5610																												
	SPX 08	M 20 x 1.5 for pipes outside Ø 12 mm	33	25.5	12	32	SPX 08.5612																												
		M 24 x 1.5 for pipes outside Ø 16 mm	33	25.5	14	32	SPX 08.5616																												
	SPX 12	M 24 x 1.5 for pipes outside Ø 16 mm	39.5	30.5	14	41	SPX 12.5616																												
		M 30 x 2 for pipes outside Ø 20 mm	39.5	30.5	16	41	SPX 12.5620																												
	SPX 16	M 30 x 2 for pipes outside Ø 20 mm	46	37.5	16	50	SPX 16.5620																												
M 36 x 2 for pipes outside Ø 25 mm		46	37.5	18	50	SPX 16.5625																													
<b>Plates fitted with a plug male thread JIC 37° according to ISO 8434-2</b> 	SPX 06	UN 1/2 - 20 (DASH 5)	29	21	14	27	SPX 06.5654																												
	SPX 08	UN 3/4 - 16 (DASH 8)	33	25.5	17	32	SPX 08.5656																												
	SPX 12	UN 7/8 - 14 (DASH 10)	39.5	30,5	19.5	41	SPX 12.5657																												
	SPX 16	UN 1 1/16 - 12 (DASH 12)	46	37.5	22	50	SPX 16.5658																												

All plugs are delivered as standard with a protective dust cap.

# Part numbers

## Panel mounted sockets and plugs – Duo version

Description	Model	Fitting	Dimensions (mm)				Part numbers	
			L1	L2	L3	H/flats		
<b>Plates fitted with a socket and a plug female thread</b> (a) UN thread according to SAE J 1926-1 	SPX 06	G 3/8	44	33.5		27	SPX 06.0102	
		NPT 3/8	44	31.5		27	SPX 06.0202	
		UN 9/16-18 (a)	44	33.5		27	SPX 06.0314	
	SPX 08	G 1/2	50	40.5		32	SPX 08.0103	
		NPT 1/2	50	38		32	SPX 08.0203	
	SPX 12	UN 3/4-16 (a)	50	38		32	SPX 08.0319	
		G 3/4	58	45.5		41	SPX 12.0104	
	SPX 12	NPT 3/4	58	41.5		41	SPX 12.0204	
		UN 1 1/16-12 (a)	58	46.5		41	SPX 12.0327	
	SPX 16	G 3/4	68	49		50	SPX 16.0104	
		G 1	68	52		50	SPX 16.0105	
		NPT 3/4	68	46		50	SPX 16.0204	
		NPT 1	68	52		50	SPX 16.0205	
		UN 1 5/16-12 (a)	68	51		50	SPX 16.0333	
	<b>Plates fitted with a socket and a plug BSP male thread with 60° cone and sealing with front O-ring seal</b> 	SPX 06	G 3/8	44	23	12	27	SPX 06.0152
		SPX 08	G 1/2	50	26.5	14	32	SPX 08.0153
SPX 12		G 3/4	58	32.5	16	41	SPX 12.0154	
SPX 16		G 3/4	68	37.5	16	50	SPX 16.0154	
<b>Plates fitted with a socket and a plug male thread for hydraulic pipes 24° cone according to ISO 8434-1 S series</b> 	SPX 06	M 18 x 1.5 for pipes outside Ø 10 mm	44	21	12	27	SPX 06.0610	
		M 20 x 1.5 for pipes outside Ø 12 mm	50	25.5	12	32	SPX 08.0612	
	SPX 08	M 24 x 1.5 for pipes outside Ø 16 mm	50	25.5	14	32	SPX 08.0616	
		M 24 x 1.5 for pipes outside Ø 16 mm	58	30.5	14	41	SPX 12.0616	
	SPX 12	M 30 x 2 for pipes outside Ø 20 mm	58	30.5	16	41	SPX 12.0620	
		M 30 x 2 for pipes outside Ø 20 mm	68	37	16	50	SPX 16.0620	
SPX 16	M 36 x 2 for pipes outside Ø 25 mm	68	37	18	50	SPX 16.0625		
	M 36 x 2 for pipes outside Ø 25 mm	68	37	18	50	SPX 16.0625		
<b>Plates fitted with a socket and a plug male thread JIC 37° according ISO 8434-2</b> 	SPX 06	UN 1/2 - 20 (DASH 5)	44	21	14	27	SPX 06.0654	
	SPX 08	UN 3/4 - 16 (DASH 8)	50	25.5	17	32	SPX 08.0656	
	SPX 12	UN 7/8 - 14 (DASH 10)	58	30.5	19,5	41	SPX 12.0657	
	SPX 16	UN 1 1/16 - 12 (DASH 12)	68	37.5	22	50	SPX 16.0658	

All sockets and plugs are delivered as standard with a protective dust cap.

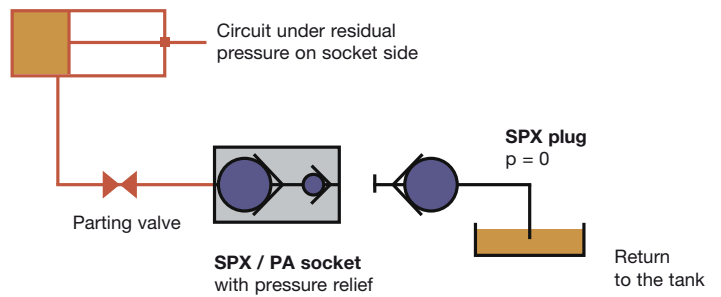
# Connection under residual pressure (/PA option)

A central relief valve built into the socket or the plug valve allows for the reduction of the residual pressure in the circuit.

## Situation 1: socket under residual pressure

Return to tank on the plug side.

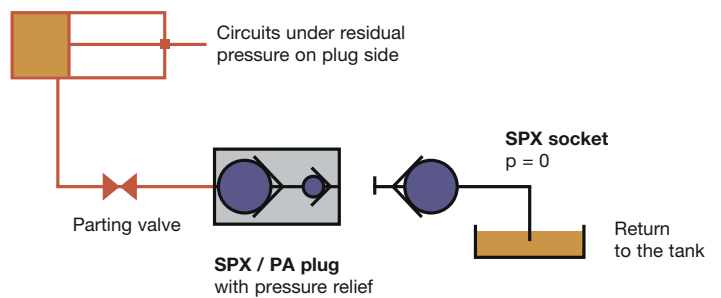
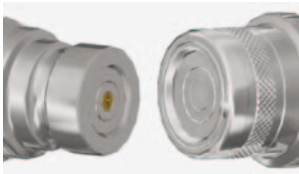
SPX xx / PA socket → SPX xx plug



## Situation 2: plug under residual pressure

Return to tank on the socket side.

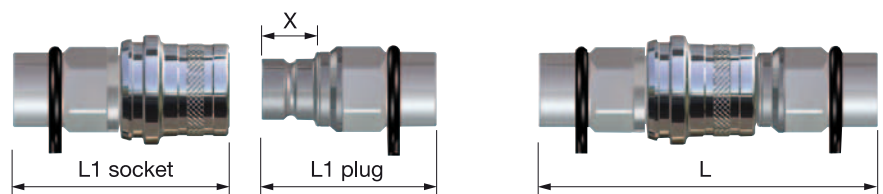
SPX xx / PA plug → SPX xx socket



## Overall dimensions in connected position

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

Model	X (mm)
SPX 06	18.5
SPX 08	21
SPX 12	25.5
SPX 16	31.5





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## Global presence of the Stäubli Group

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