

BUILT TO CONNECT



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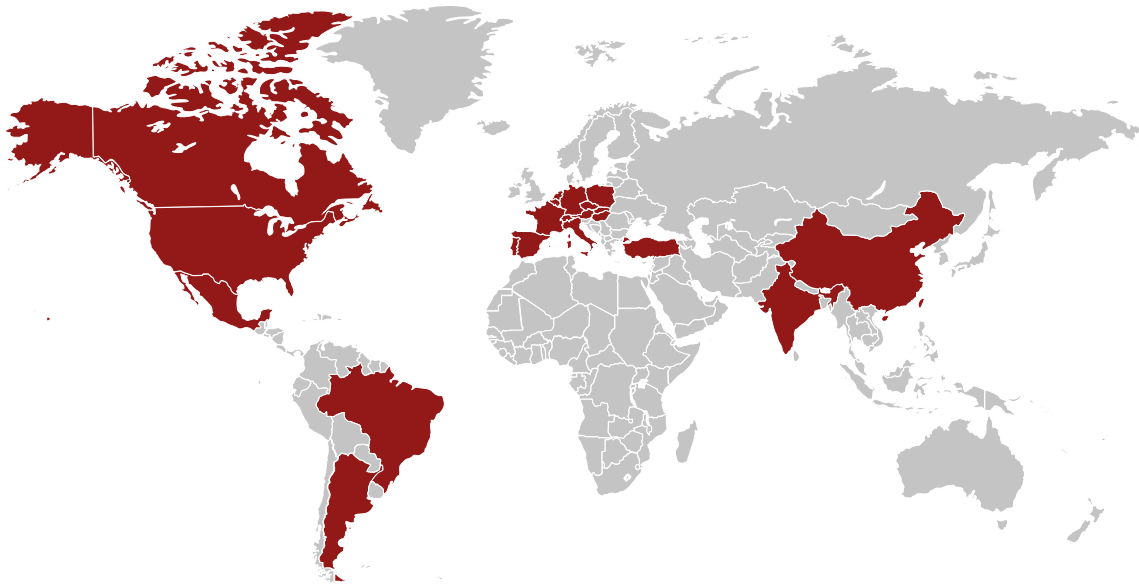
MAIN CATALOGUE

Mono and Multicouplings





ONLY FOR I



DISCOVER
OUR VARIETY.
HPS COUPLINGS.
WORLDWIDE.

HPS COUPLINGS - Build to Connect

Since its founding 30 years ago, the HPS International Group has become one of the world's leading cylinder and quick coupling manufacturers. The strength is the ability to develop new technologies in the two business units so that our customers can achieve real competitive advantages.

Our success and our knowledge are based on many years of experienced responsible employees and their entrepreneurial commitment.

Today HPS employs more than 250 people in over 18 locations.

In addition to an extensive cylinder portfolio, HPS develops and manufactures many other components and systems for use in a variety of applications. Application areas, including quick couplings, distributors, flow divider, hydraulic units and the IRON JAW system.

HPS is a Platinum Partner of Codipro, the global specialist for lifting rings.

Die HPS International Gruppe ist, seit der Gründung vor 30 Jahren, zu einem der weltweit führenden Zylinder- und Kupplungshersteller geworden. Die Stärke ist die Fähigkeit, neue Technologien in den beiden Unternehmensbereichen zu entwickeln, damit unsere Kunden echte Wettbewerbsvorteile erzielen können.

Unser Erfolg und unser Wissen basieren auf einer langjährigen Erfahrung, auf verantwortungsvollen Mitarbeitern und ihrem unternehmerischen Engagement.

Heute beschäftigen HPS mehr als 250 Mitarbeiter in über 18 Standorten.

Neben einem umfangreichen Zylinderportfolio entwickelt und fertigt HPS viele weitere Komponenten und Systeme für den Einsatz in unterschiedlichen Anwendungsbereichen, darunter Schnellverschlusskupplungen, Verteiler, Flow Divider, Hydraulik-Aggregate und das IRON JAW System.

HPS in Platinum Partner von Codipro, der weltweite Spezialist für Anschlagswirbel.

Gregory Poitrasson
President

Dipl.-Ing. Aydin Hanedar
Head of business unit coupling systems

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ONLY FOR INT



APT
International Standard Profile For Cooling



MONOCOUPPLINGS FOR

FLUIDS

TERNAL USE

APT, the international standard quick coupling system for low pressure applications and all media
APT, das internationale Profil für Niederdruckanwendungen und alle Medien

Characteristics / Eigenschaften

- High quality materials
- Compact and Ergonomic design
- Robust sealing concept
- Available in stainless steel
- Available as Multicoupling
- Hochwertige Materialien
- Kompaktes und ergonomisch Design
- Robustes Dichtungskonzept
- In Edelstahl erhältlich
- Als Multikupplung erhältlich



Clampless hose system / Schnellsteck System

- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities
- Ermöglicht zeitsparende Montage ohne Schlauchklemmen
- Platzsparend
- Reduziert Verletzungsgefahr durch scharfe Klemmen
- Umfangreiche Einsatzmöglichkeiten

Disconnecting lock / Entkupplungssperre

All couplings are available with the "disconnecting lock" safety feature this prevents the coupling system from unintentionally disconnecting.

Alle Kupplungen sind mit dem Sicherheitsmerkmal- "Entkupplungs-Sperre" erhältlich welches das ungewollte entkoppeln des Kupplungssystems verhindert.



APT COUPLING STANDARD

APT

TEMPERATURE REGULATION

-- PROFILE INTERNATIONAL --

Options / Optionen

- Color coding / Farbkodierung R / B
- Stainless Steel / Edelstahl VA
- Safety locking / Sicherheitsverriegelung S

Using areas / Einsatzbereiche

- Cooling heating / Temperierung
- Injection moulding / Kunststoffindustrie

Materials

Body Socket	Brass
Body Plug	Brass
Sleeve	Brass
Valve	Brass
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Viton (V)

Materialien

Kupplungskörper	Messing
Stecker	Messing
Hülse	Messing
Ventil	Messing
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Viton (V)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +160 °C (Water / Wasser) -20 °C +200 °C (Heating Oil / Wärmeträgeröl)

Always make sure no medium flows before disconnecting / Stellen Sie immer vor dem Trennen sicher, dass kein Medium fließt

APT 06 APT 09 APT 15



Flow Size
Nennweiten mm

6 9 15

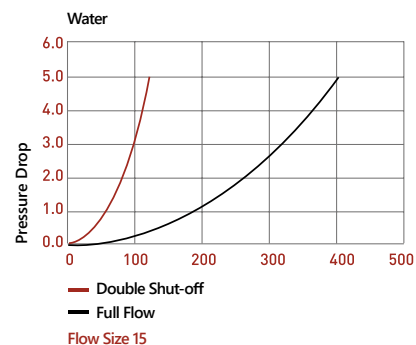
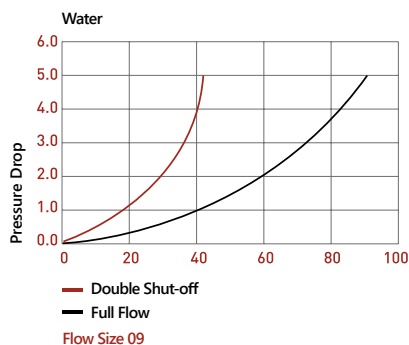
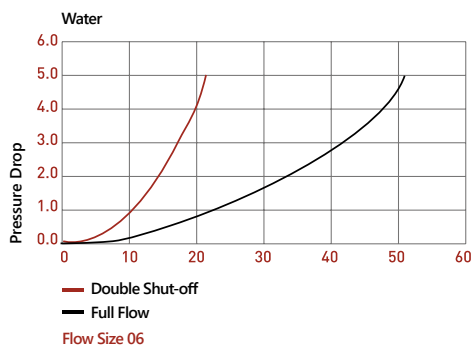


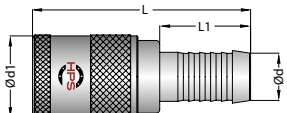
Pressure
Druck bar

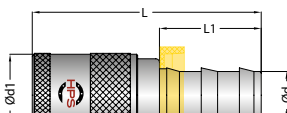
10 15 15

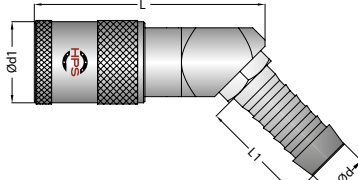


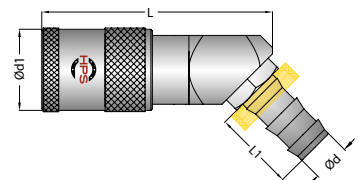
HPS Serie APT Flow Rate & Pressure Drop Graph / Durchfluss- und Druckabfalldiagramm

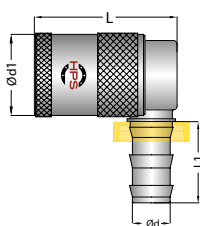


Size					ØD	ØD1		L	L1	Standard hose tail socket / Kupplung mit gerader Standard - Schlauchtülle
6	APT 06 FHB 06				6 mm	17	56	50	23	
	APT 06 FHB 09				9 mm	17	56	50	23	
	APT 06 FHB 13				13 mm	17	56	52	25	
9	APT 09 FHB 09				9 mm	23	66	57	23	
	APT 09 FHB 13				13 mm	23	68	69	25	
15	APT 15 FHB 16				16 mm	32	85	71	25	
	APT 15 FHB 19				19 mm	32	93	78	28	

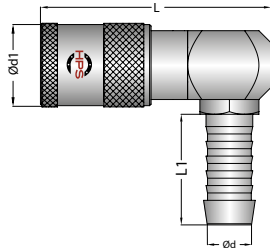
Size					ØD	ØD1		L	L1	Clampsless hose tail socket / Kupplung mit gerader Schnellsteck - Schlauchtülle
6	APT 06 FPB 06				6 mm	17	53	47	19	
	APT 06 FPB 10				10 mm	17	58	50	24	
	APT 06 FPB 13				13 mm	17	62	54	28	
9	APT 09 FPB 10				10 mm	22	68	60	24	
	APT 09 FPB 13				13 mm	22	72	64	28	
15	APT 15 FPB 16				16 mm	32	101	84	38	
	APT 15 FPB 19				19 mm	32	101	84	38	

Size					ØD	ØD1		L	L1	Standard hose tail socket 45°/ Kupplung mit 45° Standard - Schlauchtülle
6	APT 06 FHB 06-45°				6 mm	17	45	45	23	
	APT 06 FHB 09-45°				9 mm	17	45	45	23	
	APT 06 FHB 13-45°				13 mm	17	45	45	23	
9	APT 09 FHB 09-45°				9 mm	23	58	58	23	
	APT 09 FHB 13-45°				13 mm	23	58	58	25	
15	APT 15 FHB 16-45°				16 mm	32	78	78	25	
	APT 15 FHB 19-45°				19 mm	32	78	78	28	

Size					ØD	ØD1		L	L1	Clampsless hose tail socket 45°/ Kupplung mit 45° Schnellsteck - Schlauchtülle
6	APT 06 FPB 06-45°				6 mm	17	45	45	19	
	APT 06 FPB 10-45°				10 mm	17	45	45	24	
	APT 06 FPB 13-45°				13 mm	17	45	45	28	
9	APT 09 FPB 10-45°				10 mm	23	58	58	24	
	APT 09 FPB 13-45°				13 mm	23	60	58	28	
15	APT 15 FPB 16-45°				16 mm	32	78	78	38	
	APT 15 FPB 19-45°				19 mm	32	78	78	38	

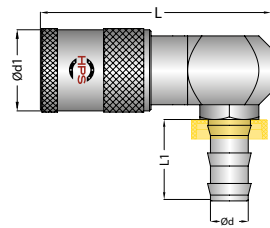
Size			ØD	ØD1	L	L1	Clampsless hose tail socket 90°/ Kupplung mit 90° Schnellsteck - Schlauchtülle
6	APT 06 FPF 06-90° X 26		6 mm	17	26	19	
	APT 06 FPF 10-90° X 26		10 mm	17	26	24	
9	APT 09 FPF 10-90° X 36		10 mm	23	36	24	
	APT 09 FPF 13-90° X 36		13 mm	23	36	28	

Standard hose tail socket 90° / Kupplung mit 90° Standard - Schlauchtülle



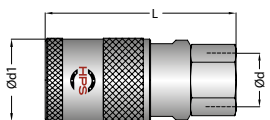
Size			ØD	ØD1	L	L1
6	APT 06 FHB 06-90°	APT 06 FHF 06-90°	6 mm	17	45	23
	APT 06 FHB 09-90°	APT 06 FHF 09-90°	9 mm	17	45	23
	APT 06 FHB 13-90°	APT 06 FHF 13-90°	13 mm	17	45	25
9	APT 09 FHB 09-90°	APT 09 FHF 09-90°	9 mm	23	58	23
	APT 09 FHB 13-90°	APT 09 FHF 13-90°	13 mm	23	58	25
15	APT 15 FHB 16-90°	APT 15 FHF 16-90°	16 mm	32	81	28
	APT 15 FHB 19-90°	APT 15 FHF 19-90°	19 mm	32	81	28

Clampless hose tail socket 90° / Kupplung mit 90° Schnellsteck - Schlauchtülle



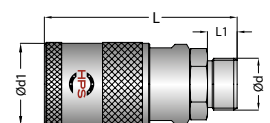
Size			ØD	ØD1	L	L1
6	APT 06 FPB 06-90°	APT 06 FPF 06-90°	6 mm	17	45	19
	APT 06 FPB 10-90°	APT 06 FPF 10-90°	10 mm	17	45	24
	APT 06 FPB 13-90°	APT 06 FPF 13-90°	13 mm	17	45	28
9	APT 09 FPB 10-90°	APT 09 FPF 10-90°	10 mm	23	58	24
	APT 09 FPB 13-90°	APT 09 FPF 13-90°	13 mm	23	58	28
15	APT 15 FPB 16-90°	APT 15 FPF 16-90°	16 mm	32	81	38
	APT 15 FPB 19-90°	APT 15 FPF 19-90°	19 mm	32	81	38

Cylindrical male thread socket short version / Kupplung mit Innengewinde zylindrisch

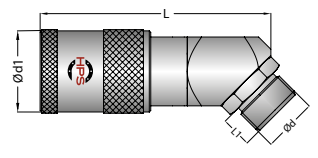


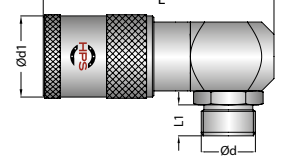
Size			ØD	ØD1	L	HEX.
6	APT 06 FFB 10	APT 06 FFF 10	BSP 1/8	17	41	14
	APT 06 FFB 13	APT 06 FFF 13	BSP 1/4	17	43	16
	APT 06 FFB 17	APT 06 FFF 17	BSP 3/8	17	43	19
9	APT 09 FFB 13	APT 09 FFF 13	BSP 1/4	23	52	17
	APT 09 FFB 17	APT 09 FFF 17	BSP 3/8	23	52	19
	APT 09 FFB 21	APT 09 FFF 21	BSP 1/2	23	57	24
15	APT 15 FFB 21	APT 15 FFF 21	BSP 1/2	32	70	27
	APT 15 FFB 26	APT 15 FFF 26	BSP 3/4	32	75	30

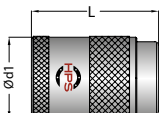
Cylindrical male thread socket / Kupplung mit Aussengewinde zylindrisch

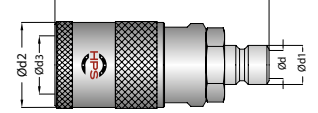


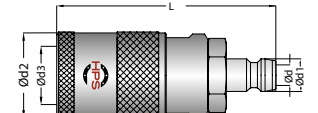
Size			ØD	ØD1	L	L1	HEX.
6	APT 06 FMB 13	APT 06 FMF 13	BSP 1/4	17	46	11	14
	APT 06 FMB 17	APT 06 FMF 17	BSP 3/8	17	46	11	17
	APT 06 FMB 1415	APT 06 FMF 1415	M14x1.5	17	46	11	15
	APT 06 FMB 1615	APT 06 FMF 1615	M16x1.5	17	46	11	17
9	APT 09 FMB 13	APT 09 FMF 13	BSP 1/4	23	56	11	17
	APT 09 FMB 17	APT 09 FMF 17	BSP 3/8	23	56	11	17
	APT 09 FMB 21	APT 09 FMF 21	BSP 1/2	23	58	12	21
	APT 09 FMB 1615	APT 09 FMF 1615	M16x1.5	23	56	11	17
15	APT 15 FMB 21	APT 15 FMF 21	BSP 1/2	32	78	12	22
	APT 15 FMB 26	APT 15 FMF 26	BSP 3/4	32	82	16	30
	APT 15 FMB 2415	APT 15 FMF 2415	M24x1.5	32	82	16	27

Size							ØD	ØD1	L	L1	HEX.	Cylindrical male thread socket 45° / Kupplung mit 45° Aussengewinde zylindrisch
6	APT 06 FMB 13-45°		APT 06 FMF 13-45°		BSP 1/4		17	45	11	14		
	APT 06 FMB 17-45°		APT 06 FMF 17-45°		BSP 3/8		17	45	11	17		
	APT 06 FMB 1415-45°		APT 06 FMF 1415-45°		M14x1.5		17	45	11	15		
	APT 06 FMB 1615-45°		APT 06 FMF 1615-45°		M16x1.5		17	45	11	17		
9	APT 09 FMB 17-45°		APT 09 FMF 17-45°		BSP 3/8		23	58	11	17		
	APT 09 FMB 1615-45°		APT 09 FMF 1615-45°		M16x1.5		23	58	11	17		
15	APT 15 FMB 21-45°		APT 15 FMF 21-45°		BSP 1/2		32	76	12	22		
	APT 15 FMB 2415-45°		APT 15 FMF 2415-45°		M24x1.5		32	76	16	30		

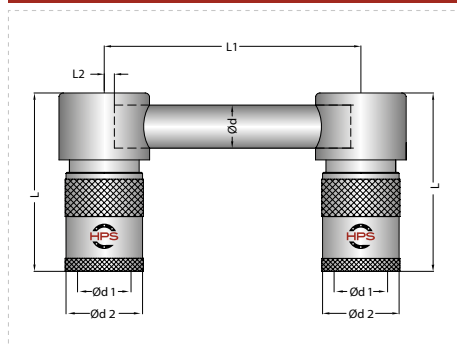
Size							ØD	ØD1	L	L1	HEX.	Cylindrical male thread socket 90° / Kupplung mit 90° Aussengewinde zylindrisch
6	APT 06 FMB 13-90°		APT 06 FMF 13-90°		BSP 1/4		17	45	11	14		
	APT 06 FMB 17-90°		APT 06 FMF 17-90°		BSP 3/8		17	45	11	17		
	APT 06 FMB 1415-90°		APT 06 FMF 1415-90°		M14x1.5		17	45	11	15		
	APT 06 FMB 1615-90°		APT 06 FMF 1615-90°		M16x1.5		17	45	11	17		
9	APT 09 FMB 17-90°		APT 09 FMF 17-90°		BSP 3/8		23	58	11	17		
	APT 09 FMB 1615-90°		APT 09 FMF 1615-90°		M16x1.5		23	58	11	17		
15	APT 15 FMB 21-90°		APT 15 FMF 21-90°		BSP 1/2		32	81	12	32		
	APT 15 FMB 2415-90°		APT 15 FMF 2415-90°		M24x1.5		32	81	16	30		

Size	Order No / Bestellnr.	ØD	L	Blind Socket / Blindkupplung
6	APT 06 FB	17	27	
9	APT 09 FB	23	36	
15	APT 15 FB	32	44	

Size		With Valve / Mit Ventil		Without Valve / Ohne Ventil	ØD	ØD1	ØD2	ØD3	L	Pas.	Adapting socket with the plug / Adapterkupplung mit Nippel
6	APT 06 FXB APT 06		APT 06 FXF APT 06		6	9.5	17	9.5	41	6	
6	APT 06 FXB APT 09		APT 06 FXF APT 09		9	13.5	23	9.5	48	6	
9	APT 09 FXB APT 06		APT 09 FXF APT 06		6	9.5	17	13.5	51	6	
9	APT 09 FXB APT 09		APT 09 FXF APT 09		9	13.5	23	13.5	53	9	

Size		With Valve / Mit Ventil		Without Valve / Ohne Ventil	ØD	ØD1	ØD2	ØD3	L	Pas.	Adapting socket with the plug / Adapterkupplung mit Nippel
6	APT 06 FXB EPT06		APT 06 FXF EPT 06		6	9	17	9.5	40	6	
6	APT 06 FXB EPT 09		APT 06 FXF EPT 09		9	13	23	9.5	36	6	
9	APT 09 FXB EPT 06		APT 09 FXF EPT 06		6	9	17	13.5	50	6	
9	APT 09 FXB EPT 09		APT 09 FXF EPT 09		9	13	23	13.5	57	9	

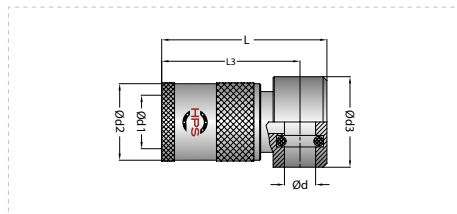
Diverting sockets / Umlenkkuplung



Size	Without Valve / Ohne Ventil	ØD	ØD1	ØD2	L	L1	L2
6	APT 06 FCF 125	8x1	9.4	17	44	125	2
	APT 06 FCF 250	8x1	9.4	17	44	250	2
	APT 06 FCF 500	8x1	9.4	17	44	500	2
9	APT 09 FCF 125	10x1	13.5	23	57	125	2
	APT 09 FCF 250	10x1	13.5	23	57	250	2
	APT 09 FCF 500	10x1	13.5	23	57	500	2

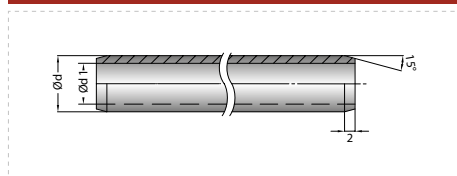
Includes 2 sockets and pipe / Beinhaltet 2 Kupplungen und das Verbindungsrohr

Diverting sockets / Umlenkkuplung



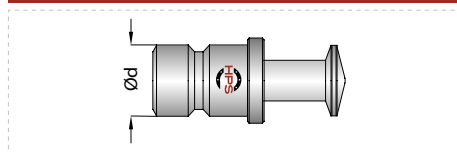
Size	Without Valve / Ohne Ventil	ØD	ØD1	ØD2	ØD3	L	L3
6	APT 06 FCF	8x1	9.4	17	20	44	37
9	APT 09 FCF	10x1	13.5	23	26	57	49

Pipe / Verbindungsrohr



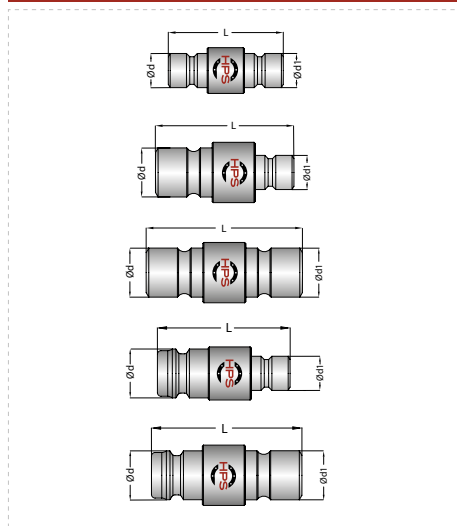
Size	Brass Tube Messing Rohr	ØD	ØD1	Length / Länge
6	APT 0810x1000	8	6	1000 mm
9	APT 1010x1000	10	8	1000 mm

Stop Plug / Blindnippel

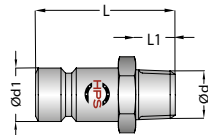
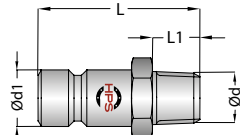
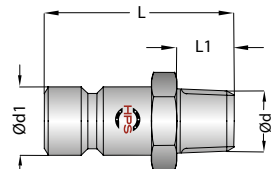
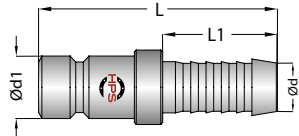
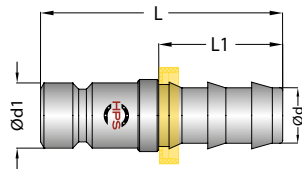


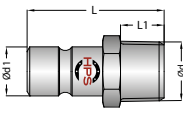
Size	Order No / Bestellnr.	ØD
6	APT 06 MB	9.4
9	APT 09 MB	13.5
15	APT 13 MB	20

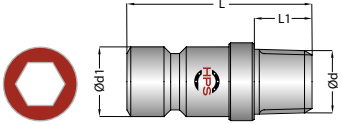
Adapting Plug / Adapternippel

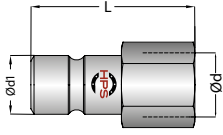


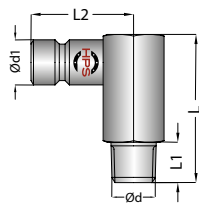
Size		ØD	ØD1	L
6	APT 06 MXM APT 06	9.4	9.4	32
6	APT 06 MXM APT 09	13.5	9.4	32
9	APT 09 MXM APT 09	13.5	13.5	33
6	APT 06 MXM EPT 06	9	9.4	28
9	APT 09 MXM EPT 09	13	13.5	33

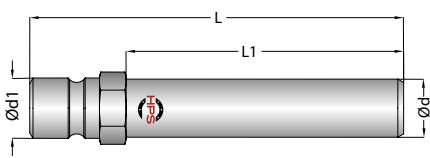
Size			ØD	ØD1	L	L1	HEX.	Conical male thread plug / Nippel mit Aussengewinde konisch
6	APT 06 MRF 10		BSPT 1/8	9.4	24	9	11	
	APT 06 MRF 13		BSPT 1/4	9.4	27	12	14	
	APT 06 MRF 17		BSPT 3/8	9.4	27	12	17	
	APT 06 MTF 10		NPT 1/8	9.4	24	9	11	
	APT 06 MTF 13		NPT 1/4	9.4	28	13	14	
	APT 06 MTF 17		NPT 3/8	9.4	28	13	17	
	APT 06 MMF 1010		M10x1	9.4	24	9	11	
	APT 06 MMF 1415		M14x1.5	9.4	26	11	15	
	APT 06 MMF 1615		M16x1.5	9.4	26	11	17	
Size			ØD	ØD1	L	L1	HEX.	Conical male thread plug / Nippel mit Aussengewinde konisch
9	APT 09 MRF 13		BSPT 1/4	13.5	33	12	14	
	APT 09 MRF 17		BSPT 3/8	13.5	33	12	17	
	APT 09 MRF 21		BSPT 1/2	13.5	38	17	22	
	APT 09 MTF 13		NPT 1/4	13.5	33	13	14	
	APT 09 MTF 17		NPT 3/8	13.5	33	13	17	
	APT 09 MTF 21		NPT 1/2	13.5	38	17	22	
	APT 09 MMF 1010		M10x1	13.5	32	10	14	
	APT 09 MMF 1415		M14x1.5	13.5	32	11	15	
	APT 09 MMF 1615		M16x1.5	13.5	33	12	17	
Size			ØD	ØD1	L	L1	HEX.	Conical male thread plug / Nippel mit Aussengewinde konisch
15	APT 15 MRF 13		BSPT 1/4	20	38	12	21	
	APT 15 MRF 17		BSPT 3/8	20	38	12	21	
	APT 15 MRF 21		BSPT 1/2	20	42	16	22	
	APT 15 MRF 26		BSPT 3/8	20	43	18	27	
	APT 15 MTF 17		NPT 3/8	20	39	13	22	
	APT 15 MTF 21		NPT 1/2	20	42	16	22	
	APT 15 MTF 26		NPT 3/4	20	43	18	27	
Size			ØD	ØD1	L	L1		Standard Hose Plug / Standard Schlauchtülle
6	APT 06 FHF 06		6 mm	9.4	37	23		
	APT 06 FHF 09		9 mm	9.4	37	23		
9	APT 09 FHF 09		9 mm	13.5	45	26		
	APT 09 FHF 13		13 mm	13.5	45	26		
15	APT 15 FHF 16		16 mm	20	50	28		
	APT 15 FHF 19		19 mm	20	55	28		
Size			ØD	ØD1	L	L1		Clampless hose tail plug / Nippel mit gerader Schnellsteck - Schlauchtülle
6	APT 06 FPF 06		6 mm	9.4	38	24		
	APT 06 FPF 10		10 mm	9.4	38	24		
9	APT 09 FPF 10		10 mm	13.5	45	24		
	APT 09 FPF 13		13 mm	13.5	48	28		
15	APT 15 FPF 16		16 mm	20	65	38		
	APT 15 FPF 19		19 mm	20	67	38		

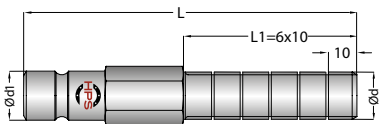
Conical male thread plug with valve / Verschlussnippel mit Aussengewinde	Size		ØD	ØD1	L	L1	HEX.
	6	APT 06 MRB 13	BSPT 1/4	9.4	29	12	14
		APT 06 MRB 17	BSPT 3/8	9.4	29	12	17
		APT 06 MTB 13	NPT 1/4	9.4	29	12	14
		APT 06 MTB 17	NPT 3/8	9.4	29	12	17
		APT 06 MKB 1415	M14x1.5	9.4	29	12	14
	9	APT 09 MRB 13	BSPT 1/4	13.5	32	12	14
		APT 09 MRB 17	BSPT 3/8	13.5	32	12	17
		APT 09 MRB 21	BSPT 1/2	13.5	37	16	22
		APT 09 MTB 13	NPT 1/4	13.5	32	12	14
		APT 09 MTB 17	NPT 3/8	13.5	32	12	17
		APT 09 MTB 21	NPT 1/2	13.5	37	16	22
		APT 09 MKB 1415	M14x1.5	13.5	32	12	15
		APT 09 MKB 1615	M14x1.5	13.5	32	12	17
	15	APT 15 MRB 21	BSPT 1/2	20	46	12	22
		APT 15 MRB 26	BSPT 3/4	20	46	16	27
		APT 15 MTB 21	NPT 1/2	20	46	12	22
		APT 15 MTB 26	NPT 3/4	20	46	16	27

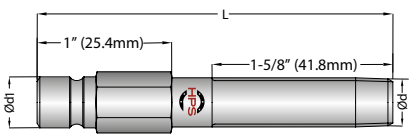
Cylindrical male thread plug inner hex. / Nippel mit Aussengewinde zylindrisch Innensechskant	Size		ØD	ØD1	L	L1	HEX.
 Inner HEX	6	APT 06 MRFH 10	BSPT 1/8	9.4	23	9	5
		APT 06 MRFH 13	BSPT 1/4	9.4	23	13	5
		APT 06 MKFH 1010	M10x1	9.4	23	9	5
		APT 06 MKFH 1415	M14x1.5	9.4	25	9	5
	9	APT 09 MRFH 13	BSPT 1/4	13.5	30	13	8
		APT 09 MRFH 17	BSPT 3/8	13.5	30	13	8
		APT 09 MRFH 21	BSPT 1/2	13.5	30	15	8
		APT 09 MKFH 1415	M14x1.5	13.5	31	9	8
		APT 09 MKFH 1615	M16x1.5	13.5	31	9	8

Size			ØD	ØD1	L	HEX.	Plugs with female thread / Nippel mit Innengewinde
6	APT 06 MFF 10	BSP 1/8	9.4	25	13		
	APT 06 MFF 13	BSP 1/4	9.4	32	16		
	APT 06 MFF 17	BSP 3/8	9.4	32	19		
9	APT 09 MFF 13	BSP 1/4	13.5	27	16		
	APT 09 MFF 17	BSP 3/8	13.5	28	19		
	APT 09 MFF 21	BSP 1/2	13.5	30	24		

Size			ØD	ØD1	L	L1	L2	HEX.	Conical male thread plug 90° / Nippel mit Aussengewinde konisch 90°
6	APT 06 MRF 10-90	BSPT 1/8	9.4	27	9	20	11		
	APT 06 MRF 13-90	BSPT 1/4	9.4	34	11	22	15		
	APT 06 MRF 17-90	BSPT 3/8	9.4	34	11	22	17		
	APT 06 MTF 10-90	NPT 1/8	9.4	27	9	20	11		
	APT 06 MTF 14-90	NPT 1/4	9.4	34	11	22	15		
	APT 06 MTF 17-90	NPT 3/8	9.4	34	9	23	17		
	APT 06 MKF 1010-90	M10x1	9.4	27	11	20	11		
	APT 06 MKF 1415-90	M14x1.5	9.4	34	11	22	15		
9	APT 09 MRF 13-90	BSPT 1/4	13.5	38	11	27	15		
	APT 09 MRF 17-90	BSPT 3/8	13.5	38	11	27	17		
	APT 09 MTF 13-90	NPT 1/4	13.5	38	11	27	15		
	APT 09 MKF 1415-90	M14x1.5	13.5	38	11	27	17		

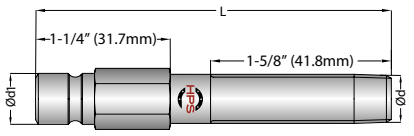
Size			ØD	ØD1	L	L1	HEX.	Extention plug / Verlängerungsnippel ohne Gewinde
6	APT 06 MEF 63	10	9.4	63	46	11		
	APT 06 MEF 100	10	9.4	100	83	11		
	APT 06 MEF 120	10	9.4	120	103	11		
	APT 06 MEF 240	10	9.4	240	223	11		
	APT 06 MEF 360	10	9.4	360	343	11		
9	APT 09 MEF 150	14	13.5	150	127	15		
	APT 09 MEF 300	14	13.5	300	127	15		
	APT 09 MEF 450	14	13.5	450	127	15		

Male long thread plug / Nippel mit langem Aussengewinde		 Size	 	ØD	ØD1	L	L1	HEX.
	6	APT 06 MMFL 10x100	BSP 1/8	9.4	100	6x10	11	
		APT 06 MMFL 13x100	BSP 1/4	9.4	100	6x10	14	
		APT 06 MMFL 17x100	BSP 3/8	9.4	100	6x10	17	
		APT 06 MMFL 1010x100	M10x1	9.4	100	6x10	11	
		APT 06 MMFL 1415x100	M14x1.5	9.4	100	6x10	14	
	9	APT 09 MMFL 13x100	BSP 1/4	13.5	100	6x10	14	
		APT 09 MMFL 17x100	BSP 3/8	13.5	100	6x10	17	
		APT 09 MMFL 1415x100	M14x1.5	13.5	100	6x10	14	
		APT 09 MMFL 1615x100	M16x1.5	13.5	100	6x10	17	

NPT long threaded extension plug / Verlängerungsnippel mit langen NPT Aussengewinde		 Size	 	ØD	ØD1	L	HEX.
	6	APT 06 MTFS 10xL	NPT 1/8	9.4	*	11	
		APT 06 MTFS 13xL	NPT 1/4	9.4	*	14	

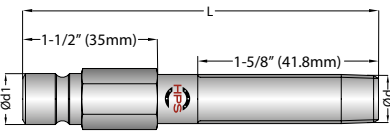
 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

NPT long threaded extention plug / Verlängerungsnippel mit langen NPT Aussengewinde		 Size	 	ØD	ØD1	L	HEX.
	9	APT 09 MTFS 13xL	NPT 1/4	13.5	*	14	
		APT 09 MTFS 17xL	NPT 3/8	13.5	*	17	

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

NPT long threaded extension plug / Verlängerungsnippel mit langen NPT Aussengewinde		 Size	 	ØD	ØD1	L	HEX.
	15	APT 15 MTFS 17xL	NPT 3/8	20	*	21	
		APT 15 MTFS 21xL	NPT 1/2	20	*	24	

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

Size			ØD	ØD1	L	L1	L2	HEX.
6	APT 06 MRF 10xL	BSPT 1/8	9.4	*	17	9	11	
	APT 06 MRF 13xL	BSPT 1/4	9.4	*	17	12	14	
	APT 06 MTF 10xL	NPT 1/8	9.4	*	19	9	11	
	APT 06 MMF 1010xL	M10x1.0	9.4	*	19	9	11	

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

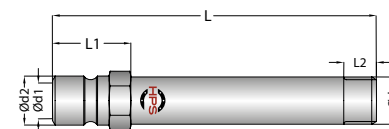
9	APT 09 MRF 13xL	BSPT 1/4	13.5	*	24	12	14	
	APT 09 MRF 17xL	BSPT 3/8	13.5	*	24	12	17	
	APT 09 MTF 13xL	BSP 1/4	13.5	*	24	9	14	
	APT 09 MTF 17xL	BSP 3/8	13.5	*	24	9	17	
	APT 09 MMF 1215xL	M12x1.5	13.5	*	25	9	14	
	APT 09 MMF 1415xL	M14x1.5	13.5	*	24	9	15	

 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

15	APT 15 MRF 17xL	BSPT 3/8	20	*	40	12	22	
	APT 15 MRF 21xL	BSPT 1/2	20	*	40	12	22	
	APT 15 MTF 17xL	NPT 3/8	20	*	40	12	22	
	APT 15 MTF 21xL	NPT 1/2	20	*	40	12	22	

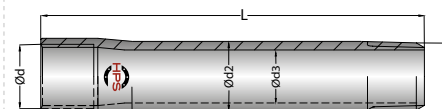
 * L : Lenght (mm): 60 / 80 / 100 / 120 / 150 / 200

Male thread extention plug /
Nippelverlängerung mit Aussengewinde

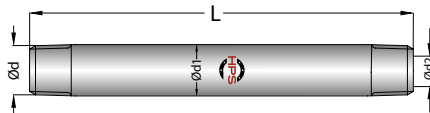


Size	BSP-BSPT	NPT-NPT	ØD	ØD1	ØD2	ØD3	L	INNER HEX.
1/8"	MFE 10/10-50 ST	TNE 10/10-50 ST	1/8	1/8	10	6	50	5
	MFE 10/10-75 ST	TNE 10/10-75 ST	1/8	1/8	10	6	75	5
	MFE 10/10-100 ST	TNE 10/10-100 ST	1/8	1/8	10	6	100	5
	MFE 10/10-125 ST	TNE 10/10-125 ST	1/8	1/8	10	6	125	5
1/4"	MFE 13/13-50 ST	TNE 13/13-50 ST	1/4	1/4	14	9	50	8
	MFE 13/13-75 ST	TNE 13/13-75 ST	1/4	1/4	14	9	75	8
	MFE 13/13-100 ST	TNE 13/13-100 ST	1/4	1/4	14	9	100	8
	MFE 13/13-125 ST	TNE 13/13-125 ST	1/4	1/4	14	9	125	8
	MFE 13/13-150 ST	TNE 13/13-150 ST	1/4	1/4	14	9	150	8

Steel extention tube with female male thread /
Stahlrohr mit Innen- und Aussengewinde



 BSP (Female) - BSPT (Male)
NPT (Female) - NPT (Male)

Male thread extention plug / Nippelverlängerung mit Aussengewinde		Size	BSPT-BSPT	NPT-NPT	ØD	ØD1	ØD2	L
  BSPT (Female) - BSPT (Male) NPT (Female) - NPT (Male)	1/8"		RRE 10/10-50 ST	TTE 10/10-50 ST	1/8	10	6	50
			RRE 10/10-100 ST	TTE 10/10-100 ST	1/8	10	6	100
			RRE 10/10-150 ST	TTE 10/10-150 ST	1/8	10	6	150
			RRE 10/10-200 ST	TTE 10/10-200 ST	1/8	10	6	200
			RRE 10/10-250 ST	TTE 10/10-250 ST	1/8	10	6	250
	1/4"		RRE 13/13-50 ST	TTE 13/13-50 ST	1/4	14	9	50
			RRE 13/13-100 ST	TTE 13/13-100 ST	1/4	14	9	100
			RRE 13/13-150 ST	TTE 13/13-150 ST	1/4	14	9	150
			RRE 13/13-200 ST	TTE 13/13-200 ST	1/4	14	9	200
			RRE 13/13-250 ST	TTE 13/13-250 ST	1/4	14	9	250
	3/8"		RRE 17/17-50 ST	TTE 17/17-50 ST	3/8	17	12	50
			RRE 17/17-100 ST	TTE 17/17-100 ST	3/8	17	12	100
			RRE 17/17-150 ST	TTE 17/17-150 ST	3/8	17	12	150
			RRE 17/17-200 ST	TTE 17/17-200 ST	3/8	17	12	200
			RRE 17/17-250 ST	TTE 17/17-200 ST	3/8	17	12	250
	1/2"		RRE 21/21-100 ST	TTE 21/21-100 ST	1/2	22	16	100
			RRE 21/21-150 ST	TTE 21/21-150 ST	1/2	22	16	150
			RRE 21/21-200 ST	TTE 21/21-200 ST	1/2	22	16	200
			RRE 21/21-250 ST	TTE 21/21-200 ST	1/2	22	16	250

Replacement seal set / Ersatz O-Ring Set		 Size		Description	Material	Working Temp.
	6	SK APT 06 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C	
	9	SK APT 09 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C	
	15	SK APT 15 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C	
	6	SK APT 06 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C	
	9	SK APT 09 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C	
	15	SK APT 15 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C	
	6	SK APT 06 MV	Plug Seal Set	FPM - Viton	-20°C +200°C	
	9	SK APT 09 MV	Plug Seal Set	FPM - Viton	-20°C +200°C	
	15	SK APT 15 MV	Plug Seal Set	FPM - Viton	-20°C +200°C	
	6	SK APT 06 FV	Socket Seal Set	FPM - Viton	-20°C +200°C	
	9	SK APT 09 FV	Socket Seal Set	FPM - Viton	-20°C +200°C	
	15	SK APT 15 FV	Socket Seal Set	FPM - Viton	-20°C +200°C	



ONLY FOR INT



BFF
ISO 7241-1 SERIE



MONOCOUPPLINGS FOR

FLUIDS

INTERNAL USE

????
?????



Characteristics / Eigenschaften

Non spill - flat face
Optimized flow characteristics
One-hand connection
Ergonomic design
Large flow size range
Available in stainless steel
ISO profile

Leckagefrei, flachdichtend
Optimierter Durchfluss
Einhandbedienung
Ergonomisches Design
Große Nennweiten
In Edelstahl erhältlich
ISO Profil

Safe and quick locking Schnelle und sichere Verriegelung

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties IHF series become a comfortable and safe quick connecting and disconnecting coupling system.

Je nach Größe sorgen die Kugeln für eine zuverlässige Verriegelung. Die Verriegelungshülse ist ergonomisch gestaltet. Dank diesen Eigenschaften wird die IHF-Serie zu einem komfortablen Schnellkupplungssystem und garantiert sicheres Ein- und Auskuppeln.



B F F
I S O B O B

SERIES BFF

TEMPERATURE REGULATION

-- ISO 7241-1 SERIE B --

OPTIONS / OPTIONEN

- Stainless Steel
- Edelstahl
- High Temperature
- Hochtemperatur Dichtung

USING AREAS / EINSATZBEREICHE

- On thermo regulation
- Temperierung
- Injection moulding industries
- Kunststoffindustrie

Materials

Body Socket	Brass chrome plated
Body Plug	AISI 420 hardened
Sleeve	Brass chrome plated
Valve	-
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Nitrile (N)

Materialien

Kupplungskörper	Messing verchromt
Stecker	AISI 420 gehärtet
Hülse	Messing verchromt
Ventil	-
Sprengtring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Nitril (N)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +180 °C
Ethylene Propylene	EPDM	- 40 °C +150 °C

Make sure no medium flows before disconnecting / Stellen Sie vor dem Trennen sicher, dass kein Medium fließt

BFF 32 BFF 38 BFF 50



Flow Size
Nennweiten mm

32 38 50



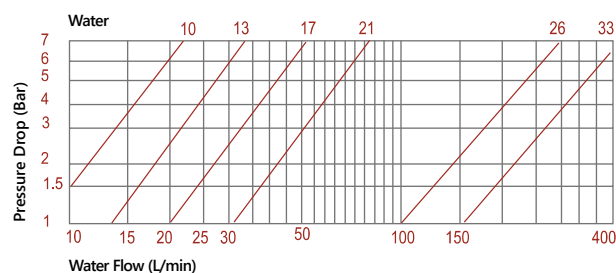
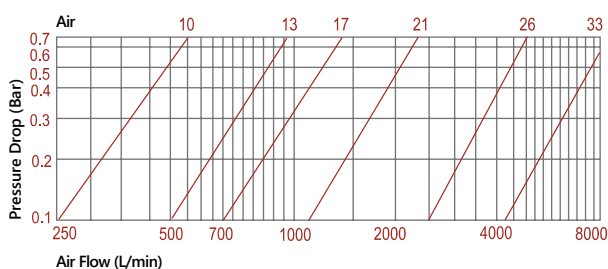
Pressure
Druck bar

10 10 10

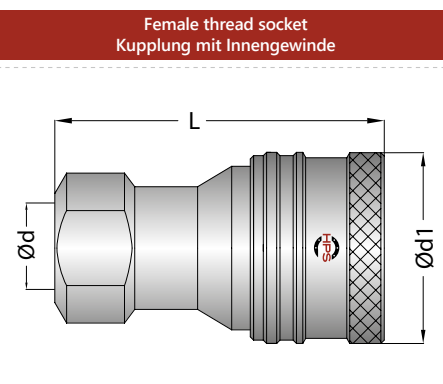


HPS Serie BFF

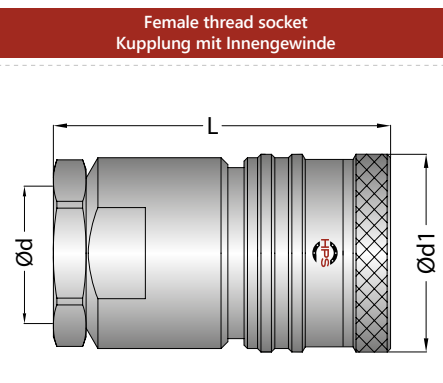
Flow Rate vs Pressure Drop Graph



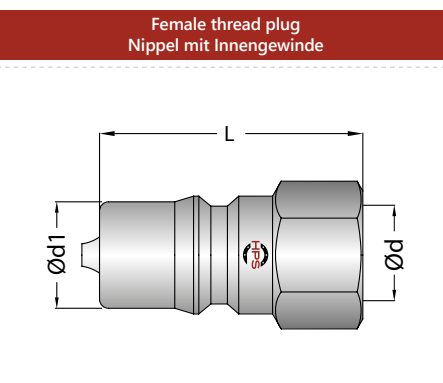
 Size	 With Valve / Mit Ventil	 Without Valve / Ohne Ventil	ØD	ØD1	L	HEX.
4	BFF 04 FFB 10	BFF 04 FFF 10	BSP 1/8	25	49	14
8	BFF 08 FFB 13	BFF 08 FFF 13	BSP 1/4	29	58	19
10	BFF 10 FFB 17	BFF 10 FFF 17	BSP 3/8	35	64	22
13	BFF 13 FFB 21	BFF 13 FFF 21	BSP 1/2	44	74	27
16	BFF 16 FFB 26	BFF 16 FFF 26	BSP 3/4	53	94	36
19	BFF 19 FFB 33	BFF 19 FFF 33	BSP 1	60	106	41

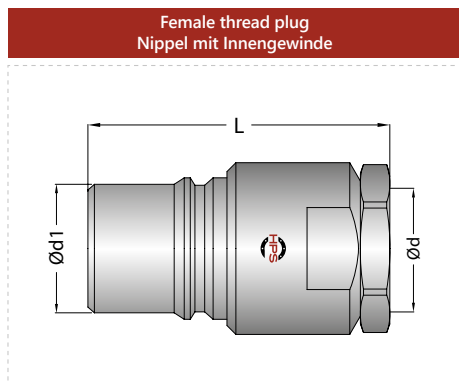


 Size	 With Valve / Mit Ventil	 Without Valve / Ohne Ventil	ØD	ØD1	L	HEX.
32	BFF 32 FFB 33	BFF 32 FFF 33	BSP 1	70	114	60
32	BFF 32 FFB 42	BFF 32 FFF 42	BSP 1-1/4	70	114	60
32	BFF 32 FFB 48	BFF 32 FFF 48	BSP 1-1/2	70	114	60
38	BFF 38 FFB 42	BFF 38 FFF 42	BSP 1-1/4	75	126	65
38	BFF 38 FFB 48	BFF 38 FFF 48	BSP 1-1/2	75	126	65
50	BFF 50 FFB 60	BFF 50 FFF 60	BSP 2	105	142	90
50	BFF 50 FFB 75	BFF 50 FFF 75	BSP 2-1/2	110	167	100



 Size	 With Valve / Mit Ventil	 Without Valve / Ohne Ventil	ØD	L	HEX.
4	BFF 04 MFB 10	BFF 04 MFF 10	BSP 1/8	30	14
8	BFF 08 MFB 13	BFF 08 MFF 13	BSP 1/4	35	19
10	BFF 10 MFB 17	BFF 10 MFF 17	BSP 3/8	39	22
13	BFF 13 MFB 21	BFF 13 MFF 21	BSP 1/2	36	27
16	BFF 16 MFB 26	BFF 16 MFF 26	BSP 3/4	60	36
19	BFF 19 MFB 33	BFF 19 MFF 33	BSP 1	65	41





Size	With Valve / Mit Ventil	Without Valve / Ohne Ventil	ØD	L	HEX.
32	BFF 32 MFB 33	BFF 32 MFF 33	BSP 1	114	60
32	BFF 32 MFB 42	BFF 32 MFF 42	BSP 1-1/4	114	60
32	BFF 32 MFB 48	BFF 32 MFF 48	BSP 1-1/2	114	60
38	BFF 38 MFB 42	BFF 38 MFF 42	BSP 1-1/4	126	65
38	BFF 38 MFB 48	BFF 38 MFF 48	BSP 1-1/2	126	65
50	BFF 50 MFB 60	BFF 50 MFF 60	BSP 2	142	90
50	BFF 50 MFB 75	BFF 50 MFF 75	BSP 2-1/2	167	100

Technical Specifications

Working Pressure / Betriebsdruck

Size	Brass - Messing		Steel - Stahl		Stainless steel - Edelstahl (AISI 303 / AISI 316)	
	Bar	PSI	Bar	PSI	Bar	PSI
BFF 04	210	3045	300	4350	300	4350
BFF 08	185	2685	300	4350	300	4350
BFF 10	150	2200	280	4050	280	4050
BFF 13	160	2320	280	4050	280	4050
BFF 16	138	2000	250	3625	250	3625
BFF 19	105	1500	230	3350	230	3350
BFF 32	85	1250	120	1750	120	1750
BFF 38	105	1500	150	2175	150	2175
BFF 50	50	725	104	4200	104	4200

ONLY FOR INT



CPF
Full Flow



MONOCOUPPLINGS FOR

FLUIDS

INTERNAL USE

CPF, the free flow quick coupling system for low pressure applications and all media

CPF, das Kupplungssystem mit freiem Durchfluss für Niederdruckanwendungen und alle Medien

Characteristics / Eigenschaften

Optimized flow characteristics	Optimierter Durchfluss
One-hand connection	Einhandbedienung
Compact and Ergonomic design	Kompaktes und ergonomisches Design
Large flow size range	Große Nennweiten
Available in stainless steel	In Edelstahl erhältlich
Chrome plated surface	Verchromte Oberfläche



Safe and quick locking Schnelle und sichere Verriegelung

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties CPF series become a comfortable and safe quick connecting and disconnecting coupling system.

Je nach Größe sorgen die Kugeln für eine zuverlässige Verriegelung. Die Verriegelungshülse ist ergonomisch gestaltet. Dank diesen Eigenschaften wird die CPF-Serie zu einem komfortablen Schnellkupplungssystem und garantiert sicheres Ein- und Auskuppeln.

Chrome plated surface / Verchromte Oberfläche

The chrome-plated nipple body made of AISI 420 is very durable and robust.

Der aus AISI 420 gefertigter und verchromter Nippelkörper ist sehr widerstandsfähig und robust.



HIGH FLOW

CPF

FULL FLOW

-- PROFILE CPF --

Options / Optionen

- Color coding / Farbkodierung R / B
- Stainless Steel / Edelstahl VA

Using areas / Einsatzbereiche

- Testing units / Prüfstände
- Injection moulding / Kunststoffindustrie

Materials

Body Socket	Brass chrome plated
Body Plug	AISI 420 hardened
Sleeve	Brass chrome plated
Valve	-
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Nitrile (N)

Materialien

Kupplungskörper	Messing verchromt
Stecker	AISI 420 gehärtet
Hülse	Messing verchromt
Ventil	-
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Nitril (N)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +180 °C

Make sure no medium flows before disconnecting / Stellen Sie vor dem Trennen sicher, dass kein Medium fließt

CPF 25 CPF 33 CPF 42



Flow Size
Nennweiten mm

25 33 42



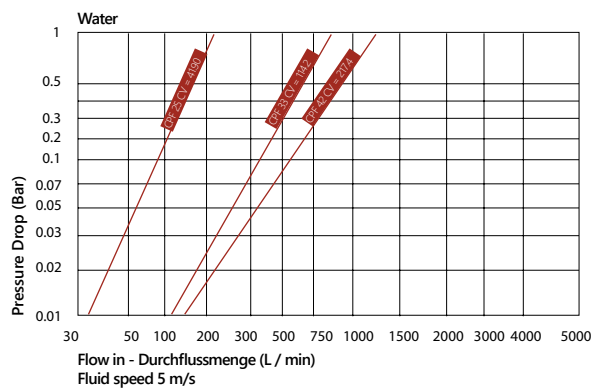
Pressure
Druck bar

10 10 10



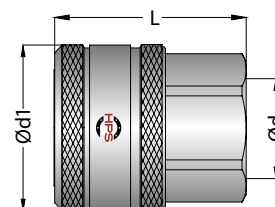
HPS Serie CPF

Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall



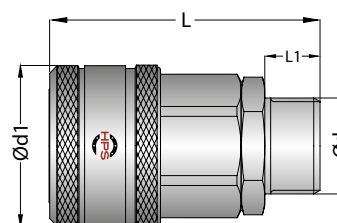
Size			ØD	ØD1	L1	HEX.
25	CPF 25 FFF 33	BSP 1	54	57	41	
33	CPF 33 FFF 42	BSP 1-1/4	65	62	50	
42	CPF 42 FFF 48	BSP 1-1/2	78	66	60	

Cylindrical female thread socket /
Kupplung mit Innengewinde zylindrisch



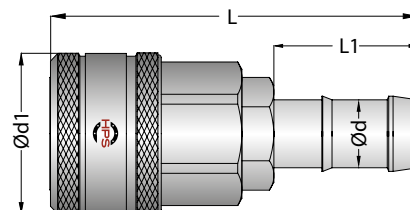
Size			ØD	ØD1	L	L1	HEX.
25	CPF 25 FMF 33	BSP 1	54	84	19	41	
33	CPF 33 FMF 42	BSP 1-1/4	65	91	19	50	
42	CPF 42 FMF 48	BSP 1-1/2	78	98	20	60	

Cylindrical male thread socket /
Kupplung mit Außengewinde zylindrisch

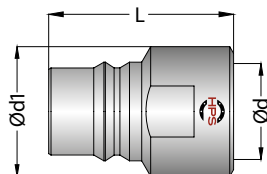


Size			ØD	ØD1	L	L1	HEX.
25	CPF 25 FHF 25	25 mm	54	117	50	41	
25	CPF 25 FHF 32	32 mm	54	117	50	41	
33	CPF 33 FHF 32	32 mm	65	122	50	50	
33	CPF 33 FHF 38	38 mm	65	122	50	50	
42	CPF 42 FHF 44	44 mm	78	126	50	60	

Standard hose tail socket /
Kupplung mit gerader Standard - Schlauchtülle

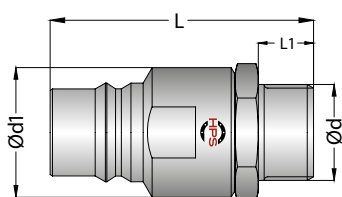


Cylindrical female thread plug /
Nippel mit Innengewinde zylindrisch



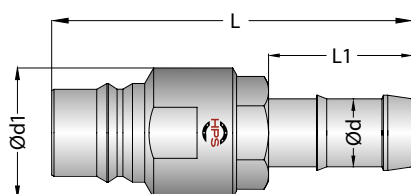
Size		ØD	ØD1	L1	HEX.
25	CPF 25 MFF 33	BSP 1	45	61	41
33	CPF 33 MFF 42	BSP 1-1/4	55	66	50
42	CPF 42 MFF 48	BSP 1-1/2	65	74	60

Cylindrical male thread plug /
Nippel mit Ausengewinde zylindrisch



Size		ØD	ØD1	L	L1	HEX.
25	CPF 25 MMF 33	BSP 1	45	88	19	41
33	CPF 33 MMF 42	BSP 1-1/4	55	95	19	50
42	CPF 42 MMF 48	BSP 1-1/2	65	106	20	60

Standard hose tail plug /
Nippel mit gerader Standard - Schlauchtülle



Size		ØD	ØD1	L	L1	HEX.
25	CPF 25 MHF 25	25 mm	54		50	41
25	CPF 25 MHF 32	32 mm	54		50	41
33	CPF 33 MHF 32	32 mm	55		50	50
33	CPF 33 MHF 38	38 mm	55		50	50
42	CPF 42 MHF 44	44 mm	65		50	60

ONLY FOR INT



EPT
European Standard Profile For Cooling



MONOCOUPPLINGS FOR

FLUIDS

TERNAL USE

EPT, the european standard quick coupling system for low pressure applications and all media
EPT, das Europrofil Kupplungssystem für Niederdruckanwendungen und alle Medien

Characteristics / Eigenschaften

- One-hand connection
- High quality materials
- Compact and Ergonomic design
- Available in stainless steel
- Available as Multicoupling
- Einhandbedienung
- Hochwertige Materialien
- Kompaktes und ergonomisch es Design
- In Edelstahl erhältlich
- Als Multikupplung erhältlich



High temperature option "HT" / Hochtemperatur Option "HT"

The HT option contain a high performance sealing with is developed for special requirements of high temperature applications.
Heat resistance up to 220° - Heatingoil: 220°C and Water: 180°C.

Die HT-Option enthält eine Hochleistungsdichtung, die für die besonderen Anforderungen von Hochtemperaturanwendungen entwickelt wurde.
Hitzebeständig bis 220°C - Wärmeträgeröl: 220°C und Heisswasser: 180°C.

Disconnecting lock / Entkupplungssperre

All couplings are available with the "disconnecting lock" safety feature this prevents the coupling system from unintentionally disconnecting.

Alle Kupplungen sind mit dem Sicherheitsmerkmal "Entkupplungs-Sperre" erhältlich welches das ungewollte entkoppeln des Kupplungssystems verhindert.



EPT COUPLING STANDARD

EPT

TEMPERATURE REGULATION

-- PROFILE EUROPE --

Options / Optionen

- Color coding / Farbkodierung R / B
- Stainless Steel / Edelstahl VA
- Safety locking / Sicherheitsverriegelung S
- High Temperature / Hochtemperatur HT
- Dichtung

Using areas / Einsatzbereiche

- Cooling heating / Temperierung
- Injection moulding / Kunststoffindustrie

Materials

Body Socket	Brass
Body Plug	Brass
Sleeve	Brass
Valve	Brass
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Viton (V)

Materialien

Kupplungskörper	Messing
Stecker	Messing
Hülse	Messing
Ventil	Messing
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Viton (V)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +160 °C (Water / Wasser) -20 °C +200 °C (Heating Oil / Wärmeregeröl)
High performance Fluor Carbon (FPM)	HT	- 20 °C +180 °C (Water / Wasser) -20 °C +220 °C (Heating Oil / Wärmeregeröl)

Always make sure no medium flows before disconnecting / Stellen Sie immer vor dem Trennen sicher, dass kein Medium fließt

EPT 06 EPT 09 EPT 13



Flow Size
Nennweiten mm

6 9 13

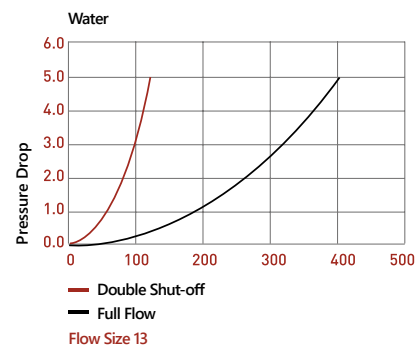
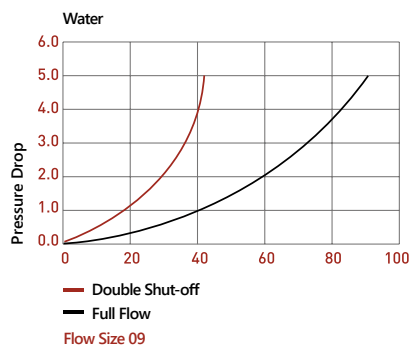
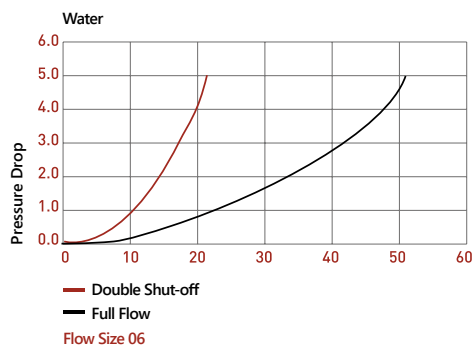


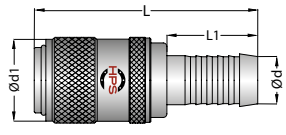
Pressure
Druck bar

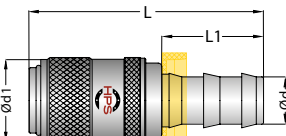
10 15 15

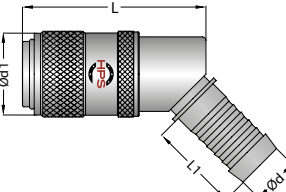


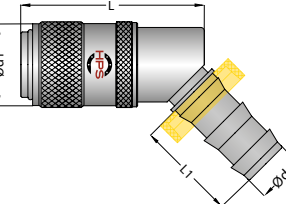
HPS Serie EPT Flow Rate & Pressure Drop Graph / Durchfluss- und Druckabfalldiagramm



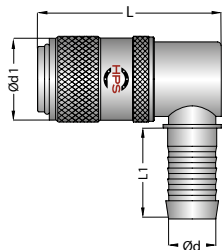
Size					ØD	ØD1	L	L1	Standard hose tail socket / Kupplung mit gerader Standard - Schlauchtülle
6	EPT 06 FHB 06		EPT 06 FHF 06		06	18	49	20	
	EPT 06 FHB 09		EPT 06 FHF 09		09	18	49	20	
	EPT 06 FHB 13		EPT 06 FHF 13		13	18	49	20	
9	EPT 09 FHB 09		EPT 09 FHF 09		09	23	59	23	
	EPT 09 FHB 13		EPT 09 FHF 13		13	23	59	25	
13	EPT 13 FHB 16		EPT 13 FHF 16		16	32	90	32	
	EPT 13 FHB 19		EPT 13 FHF 19		19	32	90	32	

Size					ØD	ØD1	L	L1	Clampless hose tail socket / Kupplung mit gerader Schnellsteck - Schlauchtülle
6	EPT 06 FPB 06		EPT 06 FPF 06		06	18	55	24	
	EPT 06 FPB 10		EPT 06 FPF 10		10	18	55	24	
	EPT 06 FPB 13		EPT 06 FPF 13		13	18	58	28	
9	EPT 09 FPB 10		EPT 09 FPF 10		10	23	60	28	
	EPT 09 FPB 13		EPT 09 FPF 13		13	23	64	28	
13	EPT 13 FPB 16		EPT 13 FPF 16		16	32	97	38	
	EPT 13 FPB 19		EPT 13 FPF 19		19	32	97	38	

Size					ØD	ØD1	L	L1	Standard hose tail socket 45° / Kupplung mit 45° Standard - Schlauchtülle
6	EPT 06 FHB 06-45		EPT 06 FHF 06-45		06	18	42	19	
	EPT 06 FHB 09-45		EPT 06 FHF 09-45		09	18	42	19	
	EPT 06 FHB 13-45		EPT 06 FHF 13-45		13	18	42	19	
9	EPT 09 FHB 09-45		EPT 09 FHF 09-45		09	23	52	24	
	EPT 09 FHB 13-45		EPT 09 FHF 13-45		13	23	52	26	
13	EPT 13 FHB 16-45		EPT 13 FHF 16-45		16	32	82	34	
	EPT 13 FHB 19-45		EPT 13 FHF 19-45		19	32	82	34	

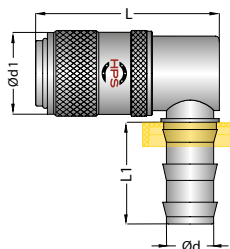
Size					ØD	ØD1	L	L1	Clampless hose tail socket 45° / Kupplung mit 45° Schnellsteck - Schlauchtülle
6	EPT 06 FPB 06-45		EPT 06 FPF 06-45		06	18	41	24	
	EPT 06 FPB 10-45		EPT 06 FPF 10-45		10	18	41	24	
	EPT 06 FPB 13-45		EPT 06 FPF 13-45		13	18	41	28	
9	EPT 09 FPB 10-45		EPT 09 FPF 10-45		10	23	52	24	
	EPT 09 FPB 13-45		EPT 09 FPF 13-45		13	23	52	28	
13	EPT 13 FPB 16-45		EPT 13 FPF 16-45		16	32	88	38	
	EPT 13 FPB 19-45		EPT 13 FPF 19-45		19	32	88	38	

Standard hose tail socket 90° /
Kupplung mit 90° Standard - Schlauchtülle



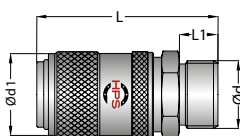
Size			ØD	ØD1	L	L1
6	EPT 06 FHB 06-90	EPT 06 FHF 06-90	06	18	41	21
	EPT 06 FHB 09-90	EPT 06 FHF 09-90	09	18	41	21
	EPT 06 FHB 13-90	EPT 06 FHF 13-90	13	18	41	23
9	EPT 09 FHB 09-90	EPT 09 FHF 09-90	09	23	52	24
	EPT 09 FHB 13-90	EPT 09 FHF 13-90	13	23	52	26
13	EPT 13 FHB 16-90	EPT 13 FHF 16-90	16	32	88	33
	EPT 13 FHB 19-90	EPT 13 FHF 19-90	19	32	88	34

Clampless hose tail socket 90° /
Kupplung mit 90° Schnellsteck - Schlauchtülle



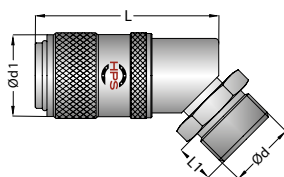
Size			ØD	ØD1	L	L1
6	EPT 06 FPB 06-90	EPT 06 FPF 06-90	06	18	41	24
	EPT 06 FPB 10-90	EPT 06 FPF 10-90	10	18	41	24
	EPT 06 FPB 13-90	EPT 06 FPF 13-90	13	18	41	28
9	EPT 09 FPB 10-90	EPT 09 FPF 10-90	10	23	52	24
	EPT 09 FPB 13-90	EPT 09 FPF 13-90	13	23	52	28
13	EPT 13 FPB 16-90	EPT 13 FPF 16-90	16	32	88	38
	EPT 13 FPB 19-90	EPT 13 FPF 19-90	19	32	88	38

Cylindrical male thread socket /
Kupplung mit Aussengewinde zylindrisch



Size			ØD	ØD1	L	L1	HEX.
6	EPT 06 FMB 13	EPT 06 FMF 13	BSP 1/4	18	47	11	17
	EPT 06 FMB 17	EPT 06 FMF 17	BSP 3/8	18	47	11	19
	EPT 06 FMB 1415	EPT 06 FMF 1415	M14x1.5	18	47	11	17
	EPT 06 FMB 1615	EPT 06 FMF 1615	M16x1.5	18	48	11	19
9	EPT 09 FMB 13	EPT 09 FMF 13	BSP 1/4	23	52	11	21
	EPT 09 FMB 17	EPT 09 FMF 17	BSP 3/8	23	52	11	21
	EPT 09 FMB 21	EPT 09 FMF 21	BSP 1/2	23	52	14	22
	EPT 09 FMB 1615	EPT 09 FMF 1615	M16x1.5	23	52	11	21
13	EPT 13 FMB 21	EPT 13 FMF 21	BSP 1/2	32	75	14	30
	EPT 13 FMB 26	EPT 13 FMF 26	BSP 3/4	32	77	16	30
	EPT 13 FMB 2415	EPT 13 FMF 2415	M24x1.5	32	77	16	30

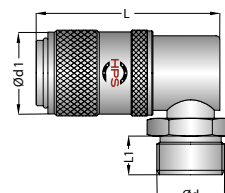
Cylindrical male thread socket 45° /
Kupplung mit 45° Aussengewinde zylindrisch



Size			ØD	ØD1	L	L1	HEX.
6	EPT 06 FMB 13-45	EPT 06 FMF 13-45	BSP 1/4	18	43	11	14
	EPT 06 FMB 17-45	EPT 06 FMF 17-45	BSP 3/8	18	43	11	17
	EPT 06 FMB 1415-45	EPT 06 FMF 1415-45	M14x1.5	18	43	11	17
	EPT 06 FMB 1615-45	EPT 06 FMF 1615-45	M16x1.5	18	43	11	17
9	EPT 09 FMB 17-45	EPT 09 FMF 17-45	BSP 3/8	23	52	11	17
	EPT 09 FMB 1615-45	EPT 09 FMF 1615-45	M16x1.5	23	52	11	17
13	EPT 13 FMB 2415-45	EPT 13 FMF 2415-45	M24x1.5	32	88	16	24

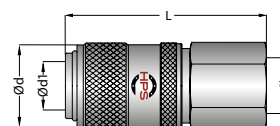
Size					ØD	ØD1	L	L1	HEX.
6	EPT 06 FMB 13-90	EPT 06 FMF 13-90			BSP 1/4	18	43	11	14
	EPT 06 FMB 17-90	EPT 06 FMF 17-90			BSP 3/8	18	43	11	17
	EPT 06 FMB 1415-90	EPT 06 FMF 1415-90			M14x1.5	18	43	11	17
	EPT 06 FMB 1615-90	EPT 06 FMF 1615-90			M16x1.5	18	43	11	17
9	EPT 09 FMB 17-90	EPT 09 FMF 17-90			BSP 3/8	23	52	11	17
	EPT 09 FMB 1615-90	EPT 09 FMF 1615-90			M16x1.5	23	52	11	17
13	EPT 13 FMB 2415-90	EPT 13 FMF 2415-90			M24x1.5	32	88	16	24

Cylindrical male thread socket 90° /
Kupplung mit 90° Aussengewinde zylindrisch



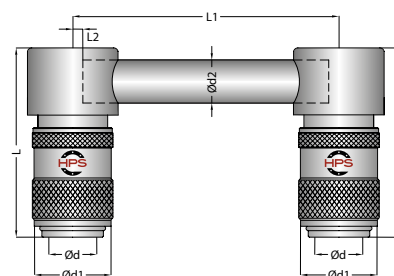
Size					ØD	ØD1	L	HEX.
6	EPT 06 FFB 13	EPT 06 FFF 13			BSP 1/4	18	47	17
	EPT 06 FFB 17	EPT 06 FFF 17			BSP 3/8	18	47	19
	EPT 06 FFB 1415	EPT 06 FFF 1415			M14x1.5	18	47	17
9	EPT 09 FFB 13	EPT 09 FFF 13			BSP 1/4	32	48	21
	EPT 09 FFB 17	EPT 09 FFF 17			BSP 3/8	32	48	21
	EPT 09 FFB 21	EPT 09 FFF 21			BSP 1/2	32	51	24
	EPT 09 FFB 1615	EPT 09 FFF 1615			M16x1.5	32	28	21
13	EPT 13 FFB 26	EPT 13 FFF 26			BSP 3/4	32	77	30

Cylindrical female thread socket /
Kupplung mit Innengewinde zylindrisch



Size		Without Valve / Ohne Ventil	ØD	ØD1	ØD2	L	L1	L2
6		EPT 06 FCF 125	6	18	8x1	44	125	2
		EPT 06 FCF 250	6	18	8x1	44	250	2
		EPT 06 FCF 500	6	18	8x1	44	500	2
9		EPT 09 FCF 125	9	23	10x1	52	125	2
		EPT 09 FCF 250	9	23	10x1	52	250	2
		EPT 09 FCF 500	9	23	10x1	52	500	2
13		EPT 13 FCF 160	13	32	14x1	80	160	3
		EPT 13 FCF 315	13	32	14x1	80	315	3
		EPT 13 FCF 500	13	32	14x1	80	500	3

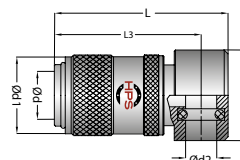
Diverting sockets / Umlenkkuplung



Includes 2 sockets and pipe / Beinhaltet 2 Kupplungen und das Verbindungsrohr

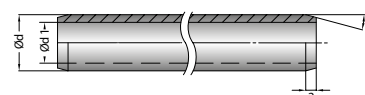
Size		Without Valve / Ohne Ventil	ØD	ØD1	ØD2	ØD3	L	L3
6		EPT 06 FCF	9	18	8x1	20	44	37
9		EPT 09 FCF	13	23	10x1	26	52	43
13		EPT 13 FCF	19	32	14x1	36	80	65

Diverting sockets / Umlenkkuplung

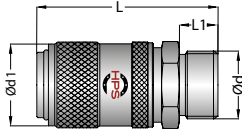


Size	Brass Tube Messing Rohr	ØD	ØD1	Length / Länge
6	EPT 0810x1000	8	6	1000 mm
9	EPT 1010x1000	10	8	1000 mm
13	EPT 1410x1000	14	12	1000 mm

Pipe / Verbindungsrohr

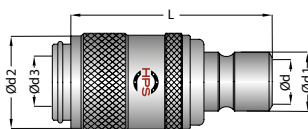
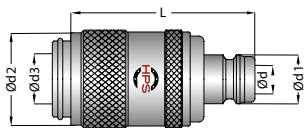


Cylindrical male thread socket short version / Kupplung mit Aussengewinde zylindr. kurze Version



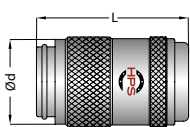
Size	With Valve / Mit Ventil	ØD	ØD1	L	L1	HEX.
6	EPT 06 FMB 13x38	BSP 1/4	18	38	9	17
9	EPT 09 FMB 17x38	BSP 3/8	23	38	9	21

Adapting Socket with plug / Adapterkupplung mit Nippel



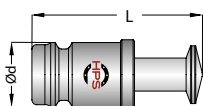
Size	With Valve / Mit Ventil	ØD	ØD1	ØD2	ØD3	L	PASAGE
6	EPT 06 FXB EPT 06	6	9	18	9	46	6
6	EPT 06 FXB EPT 09	9	13	18	9	46	9
9	EPT 09 FXB EPT 06	6	9	23	13	50.3	6
9	EPT 09 FXB EPT 09	9	13	23	13	50.3	9
6	EPT 06 FXB APT 06	6	9.5	18	9	43	6
6	EPT 06 FXB APT 09	9	13.5	18	9	45	9
9	EPT 09 FXB APT 06	6	9.5	23	13	52	6
9	EPT 09 FXB APT 09	9	13.5	23	13	52	9

Blind Socket / Blindkupplung



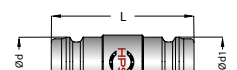
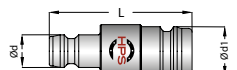
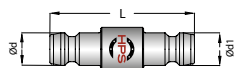
Size	Order No / Bestellnr.	ØD	L
6	EPT 06 FB	18	34
9	EPT 09 FB	23	40
13	EPT 13 FB	32	58

Blind Plug / Blindnippel

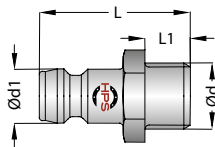
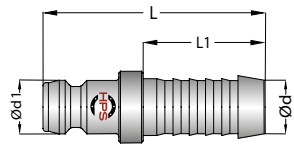
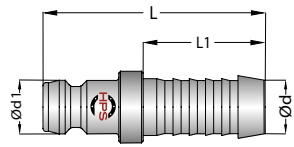


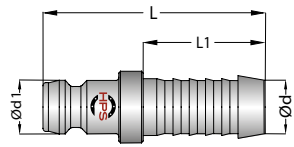
Size	Order No / Bestellnr.	ØD	L
6	EPT 06 MB	9	29
9	EPT 09 MB	13	31
13	EPT 13 MB	19	51

Adapting Plug / Adapternippel

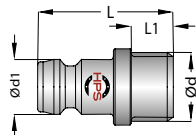


Size	With Valve / Mit Ventil	ØD	ØD1	L
6	EPT 06 MXM EPT 06	9	9	34
6	EPT 06 MXM EPT 09	9	13	38
9	EPT 09 MXM EPT 09	13	13	40
9	EPT 09 MXM APT 06	13	9.5	38
9	EPT 09 MXM APT 09	13	13.5	40

Size		ØD	ØD1	L	L1	HEX.	Male thread plug / Nippel mit Aussengewinde
6	EPT 06 MMF 10	BSP 1/8	9	24	7	11	
	EPT 06 MMF 13	BSP 1/4	9	26	9	14	
	EPT 06 MMF 17	BSP 3/8	9	26	9	17	
	EPT 06 MMF 1010	M10x1	9	24	7	11	
	EPT 06 MMF 1015	M10x1.5	9	25	8	11	
	EPT 06 MMF 1215	M12x1.5	9	27	9	17	
	EPT 06 MMF 12175	M12x1.75	9	27	9	14	
	EPT 06 MMF 1415	M14x1.5	9	26	9	15	
	EPT 06 MMF 1615	M16x1.5	9	26	9	17	
	EPT 06 MRF 10	BSPT 1/8	9	26	9	11	
	EPT 06 MRF 13	BSPT 1/4	9	30	12	14	
	EPT 06 MRF 17	BSPT 3/8	9	30	13	17	
9	EPT 09 MMF 10	BSP 1/8	13.5	24	7	14	
	EPT 09 MMF 13	BSP 1/4	13.5	26	9	14	
	EPT 09 MMF 17	BSP 3/8	13.5	26	9	17	
	EPT 09 MMF 21	BSP 1/2	13.5	30	12	21	
	EPT 09 MMF 1010	M10x1.0	13.5	24	7	14	
	EPT 09 MMF 1015	M10x1.5	13.5	26	9	14	
	EPT 09 MMF 12175	M12x1.75	13.5	29	9	14	
	EPT 09 MMF 1415	M14x1.5	13.5	26	9	15	
	EPT 09 MMF 1615	M16x1.5	13.5	26	9	17	
	EPT 09 MRF 13	BSPT 1/4	13.5	31	12	14	
	EPT 09 MRF 17	BSPT 3/8	13.5	31	13	17	
	EPT 09 MRF 21	BSPT 1/2	13.5	36	16	22	
13	EPT 13 MMF 21	BSP 1/2 BSP	19	47	12	22	
	EPT 13 MMF 26	3/4	19	51	16	27	
	EPT 13 MMF 33	BSP 1	19	53	17	35	
	EPT 13 MMF 2415	M24x1.5	19	51	16	27	

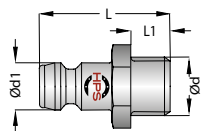
Size		ØD	ØD1	L	L1	Standard hose tail plug / Nippel mit gerader Standard - Schlauchtülle
6	EPT 06 MHF 06	6 mm	9	37	19	
	EPT 06 MHF 09	9 mm	9	37	19	
	EPT 06 MHF 13	13 mm	9	43	25	
9	EPT 09 MHF 09	9 mm	13.5	40	24	
	EPT 09 MHF 13	13 mm	13.5	41	24	
13	EPT 13 MHF 16	16 mm	19	54	24	
	EPT 13 MHF 19	19 mm	19	61	32	

Cylindrical male thread plug inner hex. / Nippel mit Aussengewinde zylindrisch Innensechskant



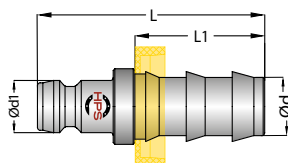
Size		ØD	ØD1	L	L1	HEX.
6	EPT 06 MMFH 10	BSP 1/8	9	24	7	5
	EPT 06 MMFH 13	BSP 1/4	9	27	9	5
	EPT 06 MMFH 0875	M8x075	9	24	8	5
	EPT 06 MMFH 1010	M10x1	9	24	8	5
	EPT 06 MMFH 1415	M14x1.5	9	27	9	5
9	EPT 09 MMFH 10	BSP 1/8	13.5	24	7	7
	EPT 09 MMFH 13	BSP 1/4	13.5	26	9	7
	EPT 09 MMFH 17	BSP 3/8	13.5	26	9	7
	EPT 09 MMFH 1010	M10x1.5	13.5	26	9	7
	EPT 09 MMFH 12175	M12x1.75	13.5	26	9	7
	EPT 09 MMFH 1415	M14x1.5	13.5	26	9	7

Cylindrical male thread plug with valve / Verschlussnippel mit Aussengewinde zylindrisch



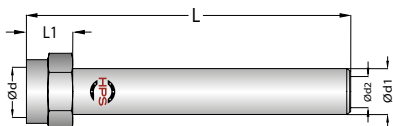
Size		ØD	ØD1	L	L1	HEX.
6	EPT 06 MMB 13	BSP 1/4	9	28	11	14
	EPT 06 MMB 17	BSP 3/8	9	28	11	17
	EPT 06 MMB 1415	M14x1.5	9	28	11	14
9	EPT 09 MMB 13	BSP 1/4	13	29	12	14
	EPT 09 MMB 17	BSP 3/8	13	30	12	17
	EPT 09 MMB 21	BSP 1/2	13	31	12	21
	EPT 09 MMB 1415	M14x1.5	13	30	12	15
	EPT 09 MMB 1615	M16x1.5	13	30	12	17
13	EPT 13 MMB 21	BSP 1/2	19	47	15	22
	EPT 13 MMB 26	BSP 3/4	19	51	15	27
	EPT 13 MB 2415	M24x1.5	19	51	17	27

Clampless hose tail plug / Nippel mit gerader Schnellsteck - Schlauchtülle



Size		ØD	ØD1	L	L1
6	EPT 06 MPF 10	10 mm	9	44	24
	EPT 06 MPF 13	13 mm	9	45	28
9	EPT 09 MPF 10	10 mm	13.4	43	24
	EPT 09 MPF 13	13 mm	13.5	47	28
13	EPT 13 MPF 16	16 mm	19	70	38
	EPT 13 MPF 19	19 mm	19	70	38

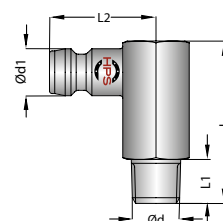
Plug extension / Nippelverlängerung



Size		ØD	ØD1	ØD2	L	L1	HEX.
6	FEN 13-120	BSP 1/4	10	6	120	11	17
9	FEN 17-150	BSP 3/8	14	9	150	11	22
6	FEN 1415-120	M14x1.5	10	6	120	12	17
9	FEN 1615-120	M16x1.5	14	9	150	12	22

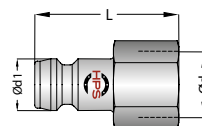
Size			ØD	ØD1	L	L1	L2	HEX.
6	EPT 06 MRF 10-90	BSPT 1/8	9	27	9	23.5	11	
	EPT 06 MRF 13-90	BSPT 1/4	9	27	11	27.5	15	
	EPT 06 MMF 0875-90	M8x0.75	9	27	9	23.5	11	
	EPT 06 MMF 1010-90	M10x1	9	27	9	23.5	11	
	EPT 06 MMF 1415-90	M14x1.5	9	34	11	27.5	15	
9	EPT 09 MRF 10-90	BSPT 1/8	13	34	9	24.5	15	
	EPT 09 MRF 13-90	BSPT 1/4	13	34	11	24.5	15	
	EPT 09 MMF 1415-90	M14x1.5	13	34	11	24.5	15	
13	EPT 13 MRF 21-90	BSPT 1/2	19	41	15	42	25	
	EPT 13 MMF 2415 -90	M24x1.5	19	41	16	42	25	

Male thread plug 90° / Nippel mit Aussengewinde 90° (Metric DIN 158 - Conical DIN 2999)

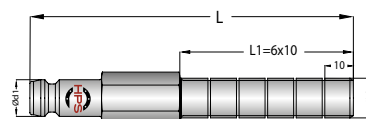


Size			ØD	ØD1	L	HEX.
6	EPT 06 MFF 10	BSP 1/8	9	23	13	
	EPT 06 MFF 13	BSP 1/4	9	27	17	
	EPT 06 MFF 17	BSP 3/8	9	27	19	
9	EPT 09 MFF 13	BSP 1/4	13	26	17	
	EPT 09 MFF 17	BSP 3/8	13	27	19	
	EPT 09 MFF 21	BSP 1/2	13	30	24	
13	EPT 13 MFF 21	BSP 1/2	19	44	24	
	EPT 13 MFF 26	BSP 3/4	19	50	30	

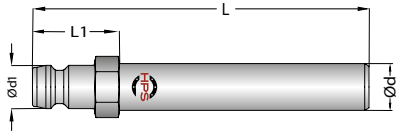
Cylindrical female thread plug / Nippel mit Innengewinde zylindrisch

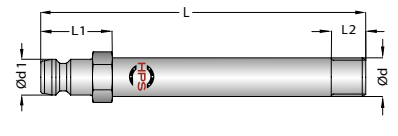


Size			ØD	ØD1	L	L1	HEX.
6	EPT 06 MMFL 10x100	BSP 1/8	9	100	6x10	11	
	EPT 06 MMFL 13x100	BSP 1/4	9	100	6x10	14	
	EPT 06 MMFL 17x100	BSP 3/8	9	100	6x10	17	
	EPT 06 MMFL 1010x100	M10x1.0	9	100	6x10	11	
	EPT 06 MMFL 1415x100	M14x1.5	9	100	6x10	14	
9	EPT 09 MMFL 13x100	BSP 1/4	13	100	6x10	14	
	EPT 09 MMFL 17x100	BSP 3/8	13	100	6x10	17	
	EPT 09 MMFL 1415x100	M14x1.5	13	100	6x10	14	
	EPT 09 MMFL 1615x100	M16x1.5	13	100	6x10	17	

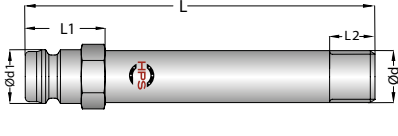


Male long thread plug / Nippel mit langem Aussengewinde zylindrisch

Plug extension / Nippelverlängerung	Size		ØD	ØD1	L	L1	HEX.
	6	EPT 06 MEF 63	8	9	63	21	9
		EPT 06 MEF 100-08	8	9	100	21	9
		EPT 06 MEF 100-10	10	9	100	21	11
		EPT 06 MEF 120	10	9	120	21	11
		EPT 06 MEF 240	10	9	240	21	11
		EPT 06 MEF 360	10	9	360	21	11
	9	EPT 09 MEF 50	14	13	50	22	15
		EPT 09 MEF 100	14	13	100	22	15
		EPT 09 MEF 120	14	13	120	22	15
		EPT 09 MEF 150-08	14	13	150	22	15
		EPT 09 MEF 150-10	10	13	150	22	14
		EPT 09 MEF 300	14	13	300	22	15
	13	EPT 13 MEF 500	21	19	500	35	22
		EPT 13 MEF 800	21	19	800	35	22

Male thread extention plug / Nippelverlängerung mit Aussengewinde	Size		ØD	ØD1	L	L1	L2	HEX.
	6	EPT 06 MRF 10xL	BSPT 1/8	9	*	21	7	11
		EPT 06 MRF 13xL	BSPT 1/4	9	*	22	9	14
		EPT 06 MMF 0875xL	M8x0.75	9	*	21	7	11
		EPT 06 MMF 1010xL	M10x1.0	9	*	21	7	11
		EPT 06 MMF 1015xL	M14x1.5	9	*	21	9	11

 * L : Length (mm): 50 / 80 / 100 / 120 / 150 / 200

Male thread extention plug / Nippelverlängerung mit Aussengewinde	Size		ØD	ØD1	L	L1	L2	HEX.
	9	EPT 09 MRF 13xL	BSPT 1/4	13.5	*	22	9	14
		EPT 09 MRF 17xL	BSPT 3/8	13.5	*	22	9	17
		EPT 09 MMF 10xL	BSP 1/8	13.5	*	22	7	14
		EPT 09 MMF 13xL	BSP 1/4	13.5	*	22	9	14
		EPT 09 MMF 17xL	BSP 3/8	13.5	*	22	9	17
		EPT 09 MMF 08125xL	M8x1.25	13.5	*	22	9	14
		EPT 09 MMF 1010xL	M10x1.0	13.5	*	22	10	14
		EPT 09 MMF 1015xL	M10x1.5	13.5	*	22	10	14
		EPT 09 MMF 1215xL	M12x1.5	13.5	*	22	10	14
		EPT 09 MMF 12175xL	M12x1.75	13.5	*	22	10	14
		EPT 09 MMF 1415xL	M14x1.5	13.5	*	22	10	15
		EPT 09 MMF 1420xL	M14x2.0	13.5	*	22	10	15
		EPT 09 MMF 1615xL	M16x1.5	13.5	*	22	13	17
		EPT 09 MMF 1620xL	M16x2.0	13.5	*	22	13	17

 * L : Length (mm): 50 / 80 / 100 / 120 / 150 / 200

 Size		Description	Material	Working Temp.	Replacement seal set / Ersatz O-Ring Set
6	SK EPT 06 MN	Plug Seal Kit	NBR - Nitrile	-15°C +100°C	
9	SK EPT 09 MN	Plug Seal Kit	NBR - Nitrile	-15°C +100°C	
13	SK EPT 13 MN	Plug Seal Kit	NBR - Nitrile	-15°C +100°C	
6	SK EPT 06 FN	Socket Seal Kit	NBR - Nitrile	-15°C +100°C	
9	SK EPT 09 FN	Socket Seal Kit	NBR - Nitrile	-15°C +100°C	
13	SK EPT 13 FN	Socket Seal Kit	NBR - Nitrile	-15°C +100°C	
6	SK EPT 06 MV	Plug Seal Kit	FPM - Viton	-20°C +200°C	
9	SK EPT 09 MV	Plug Seal Kit	FPM - Viton	-20°C +200°C	
13	SK EPT 13 MV	Plug Seal Kit	FPM - Viton	-20°C +200°C	
6	SK EPT 06 FV	Socket Seal Kit	FPM - Viton	-20°C +200°C	
9	SK EPT 09 FV	Socket Seal Kit	FPM - Viton	-20°C +200°C	
13	SK EPT 13 FV	Socket Seal Kit	FPM - Viton	-20°C +200°C	



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FPT
French Standard Profile For Cooling



MONOCOUPPLINGS FOR

FLUIDS

TERNAL USE

FPT, the french standard quick coupling system for low pressure applications and all media
FPT, das französische Profil für Niederdruckanwendungen und alle Medien

Characteristics / Eigenschaften

- High quality materials
- Compact and Ergonomic design
- Easy sealing concept
- Extensive range
- Available in 3 diameters
- Color coding
- Hochwertige Materialien
- Kompaktes und ergonomisch Design
- Einfaches Dichtungskonzept
- Umfangreiches Sortiment
- In 3 Nennweiten erhältlich
- Farbkodierung



Clampless hose system / Schnellsteck System

- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities
- Ermöglicht zeitsparende Montage ohne Schlauchklemmen
- Platzsparend
- Reduziert Verletzungsgefahr durch scharfe Klemmen
- Umfangreiche Einsatzmöglichkeiten



Easy sealing concept / Einfaches Dichtungskonzept

The external O-ring on the plug side can be replaced quickly and easily for maintenance.

Der aussenliegende O-Ring auf der Steckerseite kann bei Bedarf schnell und einfach ausgewechselt werden.



FU **FPT** L L FLOW

FPT

TEMPERATURE REGULATION

-- PROFILE FRENCH --

Options / Optionen

- Color coding / Farbkodierung **R / B**
- Stainless Steel / Edelstahl **VA**
- Safety locking / Sicherheitsverriegelung **S**

Using areas / Einsatzbereiche

- Cooling heating / Temperierung
- Injection moulding / Kunststoffindustrie

Materials

Body Socket	Brass
Body Plug	Brass
Sleeve	Brass
Valve	Brass
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Nitrile (N)

Materialien

Kupplungskörper	Messing
Stecker	Messing
Hülse	Messing
Ventil	Messing
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Nitril (N)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +160 °C (Water / Wasser) -20 °C +200 °C (Heating Oil / Wärmeträgeröl)

Always make sure no medium flows before disconnecting / Stellen Sie immer vor dem Trennen sicher, dass kein Medium fließt
The use of this series at media temperatures above 100°C is not recommended
Der Einsatz dieser Serie bei über 100°C Medientemperatur nicht empfohlen

FPT 06 FPT 08 FPT 12



Flow Size
Nennweiten mm

6 8 12



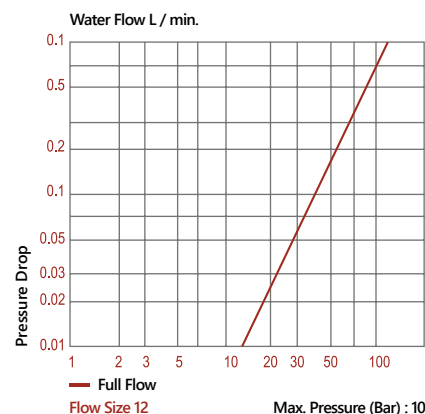
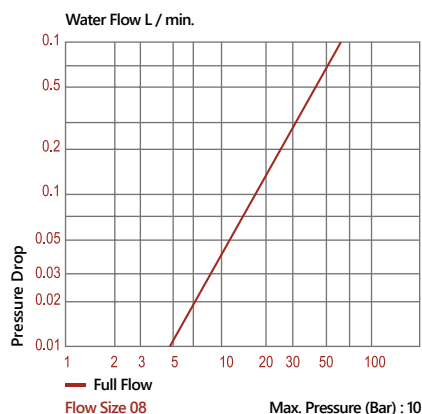
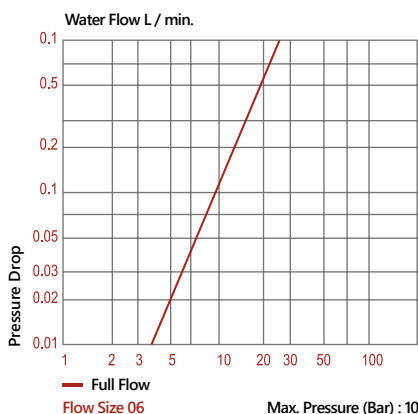
Pressure
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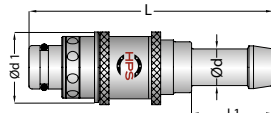
10 10 10

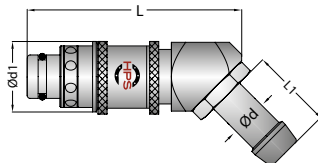


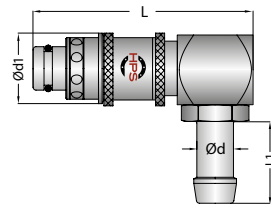
HPS Serie FPT

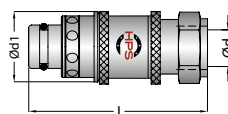
Flow Rate & Pressure Drop Graph / Durchfluss- und Druckabfalldiagramm

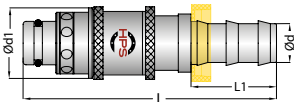


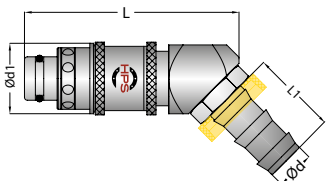
Size		ØD	ØD1	L	L1	Standard hose tail plug / Stecker mit Schlauchtülle
6	FPT 06 FHF 06	6 mm	17	55	23	
	FPT 06 FHF 08	8 mm	17	55	23	
8	FPT 08 FHF 06	6 mm	20	57	23	
	FPT 08 FHF 08	8 mm	20	62	23	
	FPT 08 FHF 10	10 mm	20	62	23	
	FPT 08 FHF 12	12 mm	20	66	23	
	FPT 08 FHF 13	13 mm	20	62	23	
12	FPT 12 FHF 13	13 mm	27.5	77	33	
	FPT 12 FHF 16	16 mm	27.5	77	33	
	FPT 12 FHF 19	19 mm	27.5	77	33	

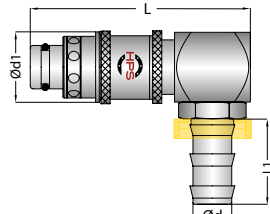
Size		ØD	ØD1	L	L1	Standard hose tail plug 45° / Stecker mit 45° Schlauchtülle
8	FPT 08 FHF 06-45	6 mm	20	55	23	
	FPT 08 FHF 08-45	8 mm	20	55	23	
	FPT 08 FHF 10-45	10 mm	20	55	23	
	FPT 08 FHF 12-45	12 mm	20	55	23	
	FPT 08 FHF 13-45	13 mm	20	55	23	
12	FPT 12 FHF 13-45	13 mm	27.5	65	33	
	FPT 12 FHF 16-45	16 mm	27.5	65	33	
	FPT 12 FHF 19-45	19 mm	27.5	65	33	

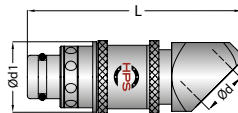
Size		ØD	ØD1	L	L1	Standard hose tail plug 90° / Stecker mit 90° Schlauchtülle
8	FPT 08 FHF 06-90	6 mm	20	55	23	
	FPT 08 FHF 08-90	8 mm	20	55	23	
	FPT 08 FHF 10-90	10 mm	20	55	23	
	FPT 08 FHF 12-90	12 mm	20	55	23	
	FPT 08 FHF 13-90	13 mm	20	55	23	
12	FPT 12 FHF 13-90	13 mm	27.5	65	33	
	FPT 12 FHF 16-90	16 mm	27.5	65	33	
	FPT 12 FHF 19-90	19 mm	27.5	65	33	

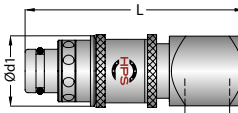
Size		ØD	ØD1	L	HEX.	Female thread plug / Stecker mit Innengewinde
8	FPT 08 FFF 13	BSP 1/4	20	44	17	
	FPT 08 FNF 13	NPT 1/4	20	44	17	
	FPT 08 FFF 17	BSP 3/8	20	53	19	
	FPT 08 FNF 17	NPT 3/8	20	52	19	
12	FPT 12 FFF 17	BSP 3/8	27.5	60	22	
	FPT 12 FFF 21	BSP 1/2	27.5	60	24	
	FPT 12 FNF 21	NPT 1/2	27.5	64	24	

Clampless hose tail plug / Stecker mit Schnellsteck - Schlauchtülle	Size		ØD	ØD1	L	L1
	8	FPT 08 FPF 10	10 mm	20	62	24
		FPT 08 FPF 13	13 mm	20	69	28
	12	FPT 12 FPF 13	13 mm	27.5	73	28
		FPT 12 FPF 16	16 mm	27.5	82	38

Clampless hose tail plug 45° / Stecker mit Schnellsteck - Schlauchtülle 45°	Size		ØD	ØD1	L	L1
	8	FPT 08 FPF 10-45	10 mm	20	55	24
		FPT 08 FPF 13-45	13 mm	20	55	28
	12	FPT 12 FPF 13-45	13 mm	27.5	65	28
		FPT 12 FPF 16-45	16 mm	27.5	65	38

Clampless hose tail plug 90° / Stecker mit Schnellsteck - Schlauchtülle 90°	Size		ØD	ØD1	L	L1
	8	FPT 08 FPF 10-90	10 mm	20	55	24
		FPT 08 FPF 13-90	13 mm	20	55	28
	12	FPT 12 FPF 13-90	13 mm	27.5	65	28
		FPT 12 FPF 16-90	16 mm	27.5	65	38

Female thread plug 45° / Stecker mit Innengewinde 45°	Size		ØD	ØD1	L
	8	FPT 08 FFF 13-45	BSP 1/4	20	55
		FPT 08 FNF 13-45	NPT 1/4	20	66
	12	FPT 12 FFF 21-45	BSP 1/2	27.5	66
		FPT 12 FNF 21-45	NPT 1/2	27.5	66

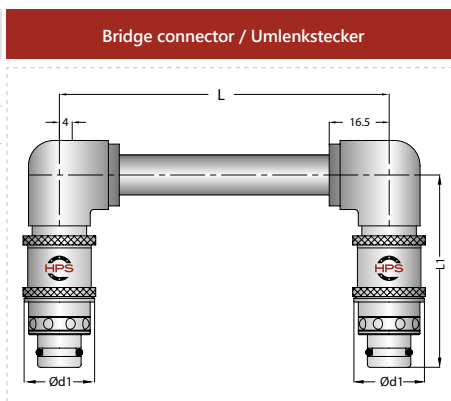
Female thread plug 90° / Stecker mit Innengewinde 90°	Size		ØD	ØD1	L
	8	FPT 08 FFF 13-90	BSP 1/4	20	55
		FPT 08 FNF 13-90	NPT 1/4	20	55
	12	FPT 12 FFF 17-90	BSP 3/8	27.5	66
		FPT 12 FFF 21-90	BSP 1/2	27.5	66
		FPT 12 FNF 21-90	NPT 1/2	27.5	66

Size	Without Valve / Ohne Ventil	ØD	ØD1	L	L1
8	FPT 08 FCF 125	11x1.5	20	125	54
	FPT 08 FCF 250	11x1.5	20	250	54
	FPT 08 FCF 500	11x1.5	20	500	54

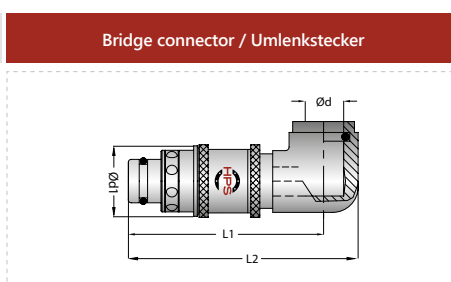
Includes 2 sockets and pipe / Beinhaltet 2 Kupplungen und das Verbindungsrohr



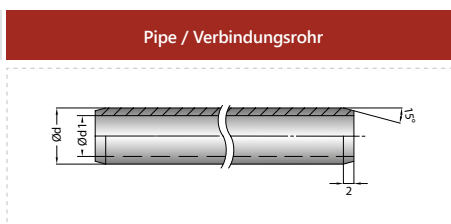
Minimum distance between plugs = 36 mm
Mindestabstand zwischen Steckern = 36 mm



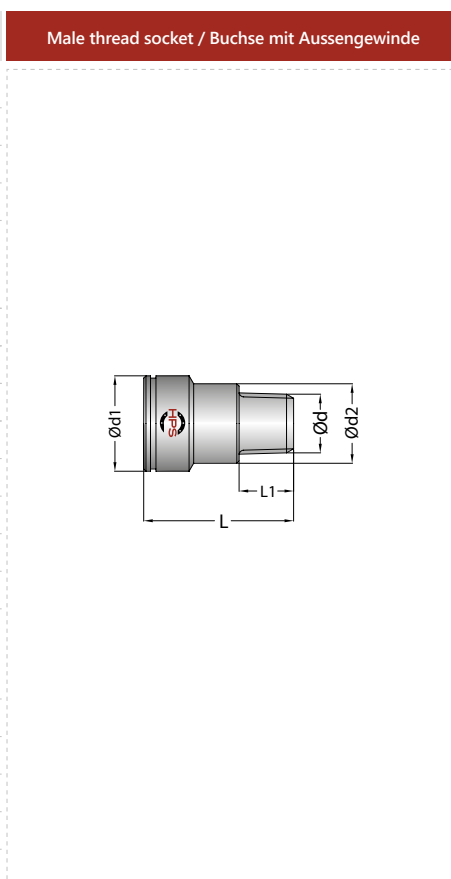
Size	Without Valve / Ohne Ventil	ØD	ØD1	L1	L2
8	FPT 08 FCF 00	11x1.5	20	54	64

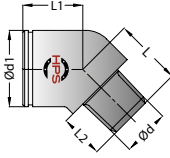


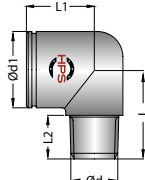
Size	Brass Tube Messing Rohr	ØD	ØD1	Length / Länge
8	FPT 08 FBM 1115x1000	11	8	1000 mm

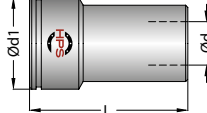


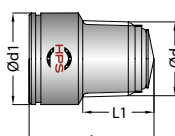
Size		ØD	ØD1	ØD2	L	L1	INNER HEX.
6	FPT 06 FRF 10	BSPT 1/8	17	14	28.5	8	6
	FPT 06 FRF 13	BSPT 1/4	17	14	28.5	12	6
	FPT 06 FTF 10	NPT 1/8	17	14	28.5	8	6
	FPT 06 FTF 13	NPT 1/4	17	14	28.5	12	6
	FPT 06 FMF 1010	M10x1.0	17	14	28.5	8	6
8	FPT 08 FRF 10	BSPT 1/8	21	17.5	32	8	6
	FPT 08 FRF 13	BSPT 1/4	21	17.5	33	12	8
	FPT 08 FRF 17	BSPT 3/8	21	-	24	12	8
	FPT 08 FRF 21	BSPT 1/2	21	-	28	16	8
	FPT 08 FTF 10	NPT 1/8	21	17.5	31	8	1/4"
	FPT 08 FTF 13	NPT 1/4	21	17.5	33	11	1/4"
	FPT 08 FTF 17	NPT 3/8	21	-	24	11	5/16"
	FPT 08 FMF 1010	M10x1.0	21	17.5	31	10	6
	FPT 08 FMF 1015	M10x1.5	21	17.5	31	10	6
	FPT 08 FMF 1415	M14x1.5	21	17.5	31	10	8
12	FPT 12 FRF 17	BSPT 3/8	32	25	41	11	10
	FPT 12 FRF 21	BSPT 1/2	32	25	44	14	14
	FPT 12 FRF 26	BSPT 3/4	32	-	32	19	14
	FPT 12 FTF 17	NPT 3/8	32	25	41	11	3/8"
	FPT 12 FTF 21	NPT 1/2	32	25	44	14	9/16"
	FPT 12 FTF 17	NPT 3/4	32	-	32	14	9/16"



Male thread socket 45° / Buchse mit Aussengewinde 45°	Size		ØD	ØD1	L	L1	L2	HEX.
	8	FPT 08 FRF 10-45	BSPT 1/8	21	16.5	18.5	10	19
		FPT 08 FRF 13-45	BSPT 1/4	21	16.5	18.5	12	19
		FPT 08 FRF 17-45	BSPT 3/8	21	16.5	18.5	12	19

Male thread socket 90° / Buchse mit Aussengewinde 90°	Size		ØD	ØD1	L	L1	L2	HEX.
	8	FPT 08 FRF 10-90	BSPT 1/8	21	23	22	10	19
		FPT 08 FRF 13-90	BSPT 1/4	21	25	22	12	19
		FPT 08 FRF 17-90	BSPT 3/8	21	26	22	13	19
		FPT 08 FTF 10-90	NPT 1/8	21	23	22	10	19
		FPT 08 FTF 13-90	NPT 1/4	21	25	22	12	19
		FPT 08 FTF 17-90	NPT 3/8	21	26	22	13	19

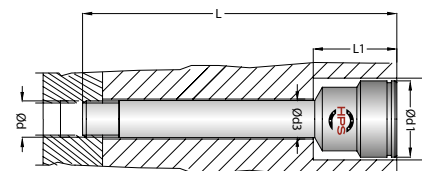
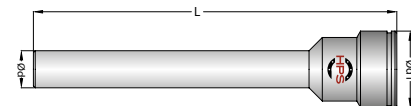
Female thread sockets / Buchse mit Innengewinde	Size		ØD	ØD1	L	INNER HEX.
	6	FPT 06 FFF 10	BSP 1/8	17	32	6
		FPT 06 FNF 10	NPT 1/4	17	33	1/4"
	8	FPT 08 FFF 10	BSP 1/8	21	35	6
		FPT 08 FFF 13	BSP 1/4	21	39	8
		FPT 08 FNF 10	NPT 1/8	21	35	1/4"
		FPT 08 FNF 13	NPT 1/4	21	39	5/16"
	12	FPT 12 FFF 17	BSP 3/8	32	49	12
		FPT 12 FFF 21	BSP 1/2	32	50	12
		FPT 12 FNF 21	NPT 1/2	32	52	1/2"

Male threaded socket with valve / Buchse mit Aussengewinde und Ventil	Size		ØD	ØD1	L	L1
	8	FPT 08 FRB 13	BSPT 1/4	21	35	12
		FPT 08 FRB 17	BSPT 3/8	21	28	13
		FPT 08 FTB 17	NPT 3/8	21	26	13

Colour Ring / Farbringe	Size	Red / Rot	Blue / Blau	Description
	6	FPT 06 FCR R	FPT 06 FCR B	Socket Colour Ring
	8	FPT 08 FCR R	FPT 08 FCR B	Socket Colour Ring
	12	FPT 12 FCR R	FPT 12 FCR B	Socket Colour Ring
	6	FPT 06 MCR R	FPT 06 MCR B	Plug Colour Ring
	8	FPT 08 MCR R	FPT 08 MCR B	Plug Colour Ring
	12	FPT 12 MCR R	FPT 12 MCR B	Plug Colour Ring

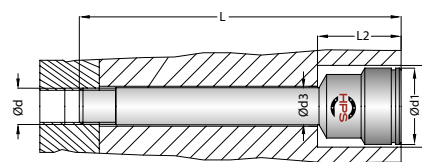
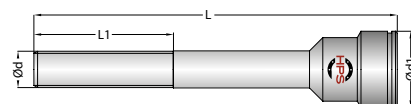
Size		ØD	ØD1	ØD2	ØD3	Min. L Max.	L1	INNER HEX.
6	FPT 06 FEF 10-100	1/8	17	18.5	11	33-100	20	6
8	FPT 08 FEF 10-100	1/8	21	22.5	11	33-100	23	6
	FPT 08 FEF 10-150	1/8	21	22.5	11	100-150	23	6
	FPT 08 FEF 10-200	1/8	21	22.5	11	150-200	23	6
	FPT 08 FEF 10-250	1/8	21	22.5	11	200-250	23	6
	FPT 08 FEF 13-100	1/4	21	22.5	14	34-100	23	6
	FPT 08 FEF 13-150	1/4	21	22.5	14	100-150	23	6
	FPT 08 FEF 13-200	1/4	21	22.5	14	150-200	23	6
12	FPT 12 FEF 17-150	3/8	32	33.5	18	59-150	43	14
	FPT 12 FEF 17-200	3/8	32	33.5	18	150-200	43	14
	FPT 12 FEF 17-250	3/8	32	33.5	18	200-250	43	14
	FPT 12 FEF 21-150	1/2	32	33.5	22	59-150	43	14
	FPT 12 FEF 21-200	1/2	32	33.5	22	150-200	43	14
	FPT 12 FEF 21-250	1/2	32	33.5	22	200-250	43	14

Socket extension without thread /
Buchse Verlängerung ohne Gewinde



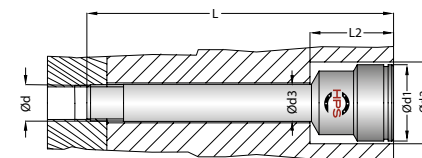
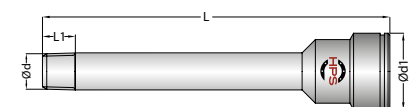
Size		ØD	ØD1	ØD2	ØD3	Min. L Max.	L1	L2	INNER HEX.
8	FPT 08 FMF 10-50	BSP 1/8	21	22.5	11	35-50	26	21	6
	FPT 08 FMF 10-100	BSP 1/8	21	22.5	11	50-100	60	21	6
	FPT 08 FMF 10-150	BSP 1/8	21	22.5	11	100-150	60	21	6
8	FPT 08 FMF 13-50	BSP 1/4	21	22.5	14	39-50	27	21	8
	FPT 08 FMF 13-100	BSP 1/4	21	22.5	14	55-100	60	21	8
	FPT 08 FMF 13-150	BSP 1/4	21	22.5	14	105-150	60	21	8
	FPT 08 FMF 13-200	BSP 1/4	21	22.5	14	155-200	60	21	8

Socket extension with male thread /
Buchse Verlängerung mit Aussengewinde

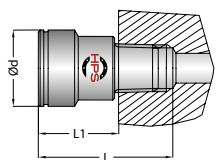
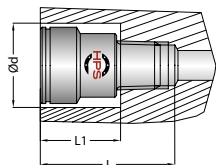


Size		ØD	ØD1	ØD2	ØD3	Min. L Max.	L1	L2	INNER HEX.
8	FPT 08 FRF 10-100	BSPT 1/8	21	22.5	11	50-100	9	21	6
	FPT 08 FRF 10-150	BSPT 1/8	21	22.5	11	100-150	9	21	6
	FPT 08 FRF 10-200	BSPT 1/8	21	22.5	11	150-200	9	21	6
	FPT 08 FRF 10-250	BSPT 1/8	21	22.5	11	200-250	9	21	6
8	FPT 08 FRF 13-100	BSPT 1/4	21	22.5	14	50-100	12	21	8
	FPT 08 FRF 13-150	BSPT 1/4	21	22.5	14	100-150	12	21	8
	FPT 08 FRF 13-200	BSPT 1/4	21	22.5	14	150-200	12	21	8
	FPT 08 FRF 13-250	BSPT 1/4	21	22.5	14	200-250	12	21	8

Socket extension with male thread /
Buchse Verlängerung mit Aussengewinde



Assembling dimensions for the socket / Einbaumaß für den versenkten Einbau



Size		ØD	L	L1	Torque (Nm)	INNER HEX.
6	BSP 1/8	18.5	29.5	20	15	6
	BSP 1/4	18.5	30.5	19	30	6
	NPT 1/8	18.5	31.5	20	15	1/4"
	NPT 1/4	18.5	33	19	30	1/4"
8	BSP 1/8	22.5	33	23	15	6
	BSP 1/4	22.5	35	22	30	8
	BSP 3/8	22.5	25	12	30	8
	NPT 1/8	22.5	33	25.5	15	1/4"
	NPT 1/4	22.5	35	24	30	5/16"
	NPT 3/8	22.5	25	14	30	5/16"
12	BSP 3/8	33.5	43	29	50	10
	BSP 1/2	33.5	46	30	50	14
	BSP 3/4	33.5	34	15	50	14
	NPT 3/8	33.5	43	33	50	3/8"
	NPT 1/2	33.5	46	35	50	9/16"
	NPT 3/4	33.5	34	15	50	9/16"

Replacement seal set / Ersatz O-Ring Set



Size		Description	Material	Working Temp.
6	SK FPT 06 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C
8	SK FPT 08 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C
12	SK FPT 12 MN	Plug Seal Set	NBR - Nitrile	-15°C +100°C
6	SK FPT 06 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C
8	SK FPT 08 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C
12	SK FPT 12 FN	Socket Seal Set	NBR - Nitrile	-15°C +100°C
6	SK FPT 06 MV	Plug Seal Set	FPM - Viton	-20°C +200°C
8	SK FPT 08 MV	Plug Seal Set	FPM - Viton	-20°C +200°C
12	SK FPT 12 MV	Plug Seal Set	FPM - Viton	-20°C +200°C
6	SK FPT 06 FV	Socket Seal Set	FPM - Viton	-20°C +200°C
8	SK FPT 08 FV	Socket Seal Set	FPM - Viton	-20°C +200°C
12	SK FPT 12 FV	Socket Seal Set	FPM - Viton	-20°C +200°C

ONLY FOR INT



IHF
ISO 16028 Flat-Face



MONOCOUPPLINGS FOR
HYDRAULICS

INTERNAL USE

IHF, the standardized coupling system for demanding hydraulic applications

IHF, das standardisierte Kupplungssystem mit anspruchsvollen Hydraulik Anwendungen

Characteristics / Eigenschaften

Non spill - flat face
Optimized flow characteristics
One-hand connection
Ergonomic design
Large flow size range
Available in stainless steel
ISO profile

Leckagefrei, flachdichtend
Optimierter Durchfluss
Einhandbedienung
Ergonomisches Design
Große Nennweiten
In Edelstahl erhältlich
ISO Profil



Safe and quick locking

Schnelle und sichere Verriegelung

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties IHF series become a comfortable and safe quick connecting and disconnecting coupling system.

Je nach Größe sorgen die Kugeln für eine zuverlässige Verriegelung. Die Verriegelungshülse ist ergonomisch gestaltet. Dank diesen Eigenschaften wird die IHF-Serie zu einem komfortablen Schnellkupplungssystem und garantiert sicheres Ein- und Auskuppeln.



Disconnection lock / Entkupplungssperre

The "disconnection lock" prevents the coupling system from unintentionally disconnecting

Durch die Entkupplungssperre wird das ungewollte entkoppeln des Kupplungssystems verhindert



IHF
ISO 16028 FLAT-FACE

IHF

ISO 16028 FLAT FACE

-- PROFILE IHF --

Options / Optionen

- Color coding / Farbkodierung **R / B**
- Stainless Steel / Edelstahl **VA**

Using areas / Einsatzbereiche

- Testing units / Prüfstände
- Injection moulding / Kunststoffindustrie
- Cores / Kernzüge

Materials

Body Socket	Steel zinc plated
Body Plug	Steel zinc plated
Sleeve	Steel zinc plated
Valve	Steel zinc plated
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Nitrile (N)

Materialien

Kupplungskörper	Stahl verzinkt
Stecker	Stahl verzinkt
Hülse	Stahl verzinkt
Ventil	Stahl verzinkt
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Nitril (N)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +180 °C

Please note the operating instructions for hydraulic couplings / Bitte Gebrauchsanweisung für Hydraulikkupplungen beachten !!

IHF 06 IHF 10 IHF 12 IHF 16 IHF 19 IHF 25



Flow Size
Nennweiten mm

6 10 12 16 19 25



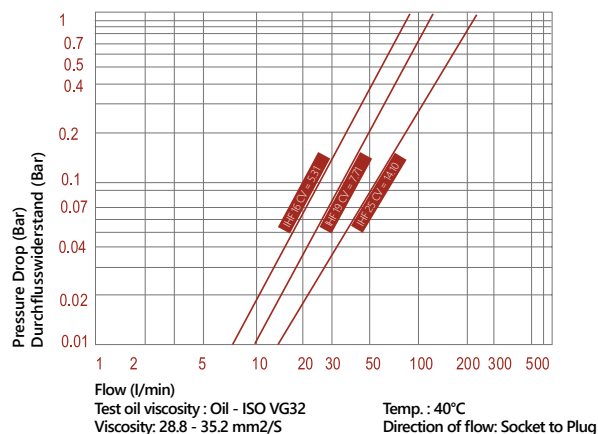
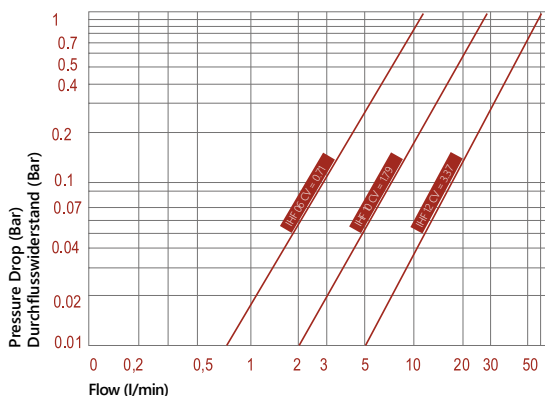
Pressure
Druck bar

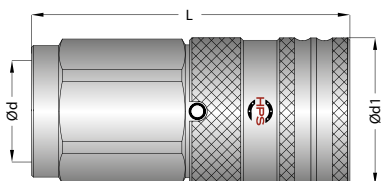
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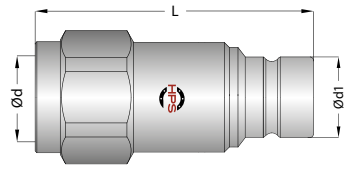


HPS Serie IHF

Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall



Size		ØD	ØD1	L	HEX.	Female thread socket / Kupplung mit Innengewinde
6	IHF 06 FFB 13	BSP 1/4	28	58	22	
	IHF 06 FNB 13	NPT 1/4	28	58	22	
10	IHF 10 FFB 17	BSP 3/8	32	66	27	
	IHF 10 FNB 17	NPT 3/8	32	66	27	
	IHF 10 FFB 21	BSP 1/2	32	70	27	
	IHF 10 FNB 21	NPT 1/2	32	70	27	
12	IHF 12 FFB 21	BSP 1/2	38	83	35	
	IHF 12 FNB 21	NPT 1/2	38	83	35	
16	IHF 16 FFB 26	BSP 3/4	42	85	36	
	IHF 16 FNB 26	NPT 3/4	42	85	36	
19	IHF 19 FFB 33	BSP 1	48	97	41	
	IHF 19 FNB 33	NPT 1	48	97	41	
25	IHF 25 FFB 33	BSP 1	55	112	55	
	IHF 25 FNB 33	NPT 1	55	112	55	

Size		ØD	ØD1	L	HEX.	Female thread socket / Kupplung mit Innengewinde
6	IHF 06 MFB 13	BSP 1/4	16	52	22	
	IHF 06 MNB 13	NPT 1/4	16	52	22	
10	IHF 10 MFB 17	BSP 3/8	20	59	25	
	IHF 10 MNB 17	NPT 3/8	20	59	25	
	IHF 10 MFB 21	BSP 1/2	20	62	27	
	IHF 10 MNB 21	NPT 1/2	20	62	27	
12	IHF 12 MFB 21	BSP 1/2	24.5	74	32	
	IHF 12 MNB 21	NPT 1/2	24.5	71	32	
16	IHF 16 MFB 26	BSP 3/4	27	76	38	
	IHF 16 MNB 26	NPT 3/4	27	76	38	
19	IHF 19 MFB 33	BSP 1	30	82	46	
	IHF 19 MNB 33	NPT 1	30	85	46	
25	IHF 25 MFB 33	BSP 1	36	90	55	
	IHF 25 MNB 33	NPT 1	36	90	55	

ONLY FOR INT



SPT
High Flow French Standard Profile For Cooling



MONOCOUPPLINGS FOR

FLUIDS

INTERNAL USE

FPT, the french standard quick coupling system for low pressure applications and all media
FPT, das französische Profil für Niederdruckanwendungen und alle Medien

Characteristics / Eigenschaften

- High quality materials
- Compact and Ergonomic design
- Easy sealing concept
- Extensive range
- Available in 3 diameters
- Color coding
- Hochwertige Materialien
- Kompaktes und ergonomisch Design
- Einfaches Dichtungskonzept
- Umfangreiches Sortiment
- In 3 Nennweiten erhältlich
- Farbkodierung



Clampless hose system / Schnellsteck System

- Allows time-saving assembly without using hose clamps
- Space saving
- Reduces the risk of injury from sharp clamps
- Extensive application possibilities
- Ermöglicht zeitsparende Montage ohne Schlauchklemmen
- Platzsparend
- Reduziert Verletzungsgefahr durch scharfe Klemmen
- Umfangreiche Einsatzmöglichkeiten



Easy sealing concept / Einfaches Dichtungskonzept

The external O-ring on the plug side can be replaced quickly and easily for maintenance.

Der aussenliegende O-Ring auf der Steckerseite kann bei Bedarf schnell und einfach ausgewechselt werden.



HIGH FLOW

SPT

TEMPERATURE REGULATION

-- PROFILE INTERNATIONAL --

Options / Optionen

- Color coding / Farbkodierung **R / B**
- Stainless Steel / Edelstahl **VA**
- Safety locking / Sicherheitsverriegelung **S**

Using areas / Einsatzbereiche

- Cooling heating / Temperierung
- Injection moulding / Kunststoffindustrie

Materials

Body Socket	Brass
Body Plug	Brass
Sleeve	Brass
Valve	Brass
Locking Ring	Stainless steel
Spring	Stainless steel
Balls	Stainless steel
Seals	Viton (V)

Materialien

Kupplungskörper	Messing
Stecker	Messing
Hülse	Messing
Ventil	Messing
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	Viton (V)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +160 °C (Water / Wasser) -20 °C +200 °C (Heating Oil / Wärmeträgeröl)

Always make sure no medium flows before disconnecting / Stellen Sie immer vor dem Trennen sicher, dass kein Medium fließt

SPT 06 SPT 09 SPT 12 SPT 16 SPT 20 SPT 25 SPT 38



Flow Size
Nennweiten mm

6 9 12 16 20 25 38

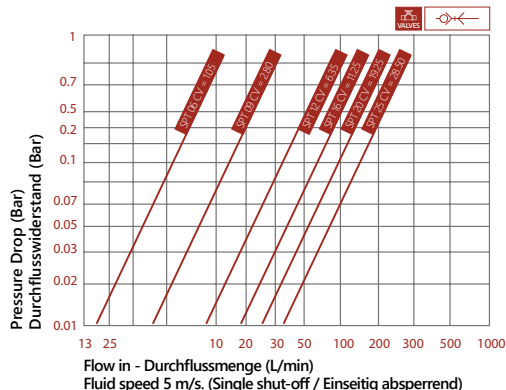
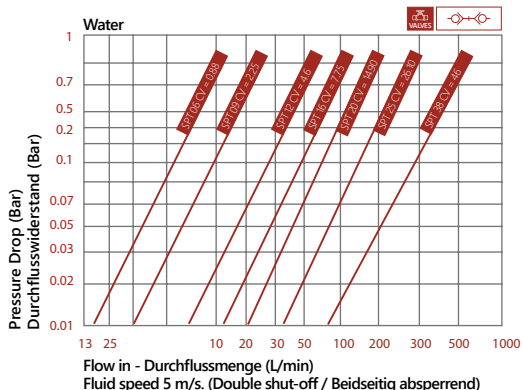


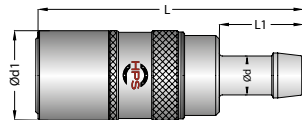
Pressure
Druck bar

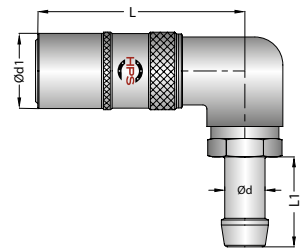
16 16 16 16 16 16 16

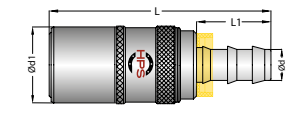
HPS Serie SPT

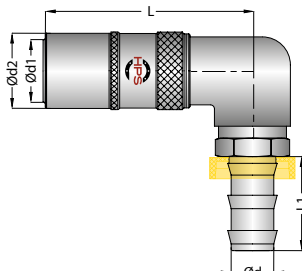
Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall

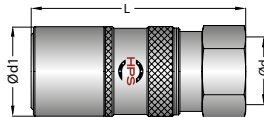


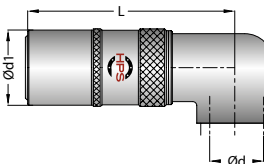
Size	   	 	ØD	ØD1	L	L1	Standard hose tail socket / Kupplung mit Standard Schlauchtülle
6	SPT 06 FHB 06	SPT 06 FHF 06	6 mm	19	60	23	
	SPT 06 FHB 08	SPT 06 FHF 08	8 mm	19	60	23	
9	SPT 09 FHB 10	SPT 09 FHF 10	10 mm	24.5	69	27.5	
	SPT 09 FHB 12	SPT 09 FHF 12	12 mm	24.5	69	27.5	
12	SPT 12 FHB 12 SPT	SPT 12 FHF 12	12 mm	30	81.5	27.5	
	12 FHB 16	SPT 12 FHF 16	16 mm	30	87	33	
16	SPT 16 FHB 16 SPT	SPT 16 FHF 16	16 mm	37.5	108	33	
	16 FHB 19	SPT 16 FHF 19	19 mm	37.5	108	33	

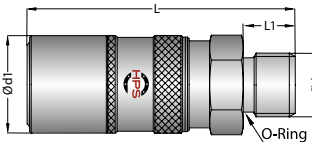
Size	   	 	ØD	ØD1	L	L1	Standard hose tail socket 90°/ Kupplung mit Standard Schlauchtülle 90°
6	SPT 06 FHB 08-90	SPT 06 FHF 08-90	8 mm	19	60	23	
9	SPT 09 FHB 10-90	SPT 09 FHF 10-90	10 mm	24.5	69	27.5	
	SPT 09 FHB 12-90	SPT 09 FHF 12-90	12 mm	24.5	69	27.5	
12	SPT 12 FHB 12-90	SPT 12 FHF 12-90	12 mm	30	84	27.5	
	SPT 12 FHB 16-90	SPT 12 FHF 16-90	16 mm	30	84	33	
16	SPT 16 FHB 19-90	SPT 16 FHF 19-90	19 mm	37.5	114	33	

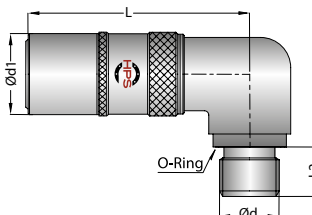
Size	   	 	ØD	ØD1	L	L1	Push to connect hose tail socket / Kupplung mit schnellsteck Schlauchtülle
6	SPT 06 FPB 10	SPT 06 FPF 10	10 mm	19	61	24	
9	SPT 09 FPB 10	SPT 09 FPF 10	10 mm	24.5	66	24	
	SPT 09 FPB 13	SPT 09 FPF 13	13 mm	24.5	81.5	28	
12	SPT 12 FPB 13	SPT 12 FPF 13	13 mm	30	81.5	28	
	SPT 12 FPB 16	SPT 12 FPF 16	16 mm	30	91.5	38	
16	SPT 16 FPB 19	SPT 16 FPF 19	19 mm	37.5	113	38	

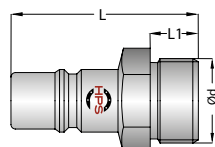
Size	   	 	ØD	ØD1	L	L1	Push to connect hose tail socket 90°/ Kupplung mit schnellsteck Schlauchtülle 90°
6	SPT 06 FPB 10-90	SPT 06 FPF 10-90	10 mm	19	60	24	
9	SPT 09 FPB 10-90	SPT 09 FPF 10-90	10 mm	24.5	69	24	
	SPT 09 FPB 13-90	SPT 09 FPF 13-90	13 mm	24.5	69	28	
12	SPT 12 FPB 13-90	SPT 12 FPF 13-90	13 mm	30	84	28	
	SPT 12 FPB 16-90	SPT 12 FPF 16-90	16 mm	30	94	38	
16	SPT 16 FPB 19-90	SPT 16 FPF 19-90	19 mm	37.5	114	38	

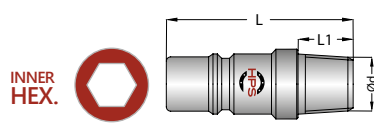
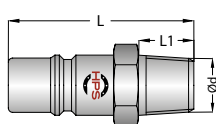
Female thread socket / Kupplung mit Innengewinde		 Size	   	 	ØD	ØD1	L	L1
	6	SPT 06 FFB 13	SPT 06 FFF 13	BSP 1/4	19	46	17	
		SPT 06 FNB 13	SPT 06 FNF 13	NPT 1/4	19	46	17	
	9	SPT 09 FFB 17	SPT 09 FFF 17	BSP 3/8	24.5	53	22	
		SPT 09 FNB 17	SPT 09 FNF 17	NPT 3/8	24.5	53	22	
	12	SPT 12 FFB 21	SPT 12 FFF 21	BSP 1/2	30	81.5	27.5	
		SPT 12 FNB 21	SPT 12 FNF 21	NPT 1/2	30	87	33	
	16	SPT 16 FFB 26	SPT 16 FFF 26	BSP 3/4	37.5	90	35	
		SPT 16 FNB 26	SPT 16 FNF 26	NPT 3/4	37.5	90	35	

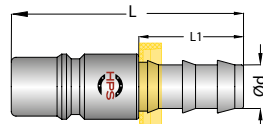
Female thread socket 90° / Kupplung mit Innengewinde 90°		 Size	  	 	ØD	ØD1	L	L1
	6	SPT 06 FFB 13-90	SPT 06 FFF 13-90	BSP 1/4	19	46	17	
		SPT 06 FNB 13-90	SPT 06 FNF 13-90	NPT 1/4	19	46	17	
	9	SPT 09 FFB 17-90	SPT 09 FFF 17-90	BSP 3/8	24.5	53	22	
		SPT 09 FNB 17-90	SPT 09 FNF 17-90	NPT 3/8	24.5	53	22	
	12	SPT 12 FFB 21-90	SPT 12 FFF 21-90	BSP 1/2	30	81.5	27.5	
		SPT 12 FNB 21-90	SPT 12 FNF 21-90	NPT 1/2	30	87	33	
	16	SPT 16 FFB 26-90	SPT 16 FFF 26-90	BSP 3/4	37.5	90	35	
		SPT 16 FNB 26-90	SPT 16 FNF 26-90	NPT 3/4	37.5	90	35	

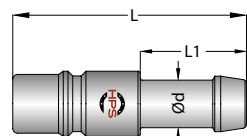
Cylindrical male thread socket / Kupplung mit zylindrischem Aussengewinde		 Size	  	 	ØD	ØD1	L	L1	HEX.
	6	SPT 06 FOB 13		SPT 06 FOF 13	BSP 1/4	19	46	10	17
	9	SPT 09 FOB 17		SPT 09 FOF 17	BSP 3/8	24.5	53	11	22
	12	SPT 12 FOB 21		SPT 12 FOF 21	BSP 1/2	30	67	11	22
	16	SPT 16 FOB 26		SPT 16 FOF 26	BSP 3/4	37.5	90.5	14	27

Male thread socket 90° / Kupplung mit Aussengewinde 90°		 Size							ØD	ØD1	L	L1	HEX.
	6	SPT 06 FOB 13-90	SPT 06 FOF 13-90	BSP 1/4	19	46	34	9					
	9	SPT 09 FOB 17-90	SPT 09 FOF 17-90	BSP 3/8	24.5	53	40	10					
	12	SPT 12 FOB 21-90	SPT 12 FOF 21-90	BSP 1/2	30	67	40	10					
	16	SPT 16 FOB 26-90	SPT 16 FOF 26-90	BSP 3/4	37.5	114	47	12					

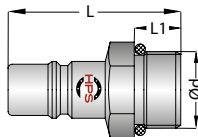
Size		ØD	L	L1	HEX.	Cylindrical male thread plug / Nippel mit zylindrischem Aussengewinde
6	SPT 06 MMF 13	BSP 1/4 BSP	33	9	14	
	SPT 06 MMF 17	3/8	34	10	19	
9	SPT 09 MMF 13	BSP 1/4 BSP	35	10	15	
	SPT 09 MMF 17	3/8	37	12	19	
	SPT 09 MMF 21	BSP 1/2	37	12	22	
12	SPT 12 MMF 21	BSP 1/2	42	12	24	
	SPT 12 MMF 26	BSP 3/4	46	16	27	
16	SPT 16 MMF 26	BSP 3/4	62	16	27	
	SPT 16 MMF 33	BSP 1	60	22	32	
	SPT 16 MMF 2415	M24x1.5	56	18	30	

Size		ØD	L	L1	INNER HEX.	OUTER HEX.	Conical male thread plug / Nippel mit konischem Aussengewinde
6	SPT 06 MRF 13	BSPT 1/8	30	9	5	-	
	SPT 06 MRF 17	BSPT 1/4	31	13	5	-	
9	SPT 09 MRF 13	BSPT 1/4	34	10	8	-	
	SPT 09 MRF 17	BSPT 3/8	36	13	8	-	
	SPT 09 MRF 21	BSPT 1/2	42	17	-	22	
	SPT 09 MTF 13	NPT 1/4	37	13	8	-	
	SPT 09 MTF 17	NPT 3/8	38	13	8	-	
12	SPT 12 MRF 17	BSPT 3/8	39	13	10	-	
	SPT 12 MRF 21	BSPT 1/2	45	16	-	22	
	SPT 12 MTF 17	NPT 3/8	39	14	10	-	
	SPT 12 MTF 21	NPT 1/2	45	16	-	22	
16	SPT 16 MRF 26	BSPT 3/4	63	17	-	27	
	SPT 16 MTF 26	NPT 3/4	62	19	-	27	

Size		ØD	L	L1	Push to connect hose tail plug / Nippel mit gerader Schnellsteck - Schlauchtülle
6	SPT 06 MPF 10	10 mm	45	24	
9	SPT 09 MPF 10	10 mm	46	24	
9	SPT 09 MPF 13	13 mm	50	28	
12	SPT 12 MPF 13	13 mm	57	28	
12	SPT 12 MPF 16	16 mm	67	38	
16	SPT 16 MPF 16	16 mm	73	38	
16	SPT 16 MPF 19	19 mm	73	38	

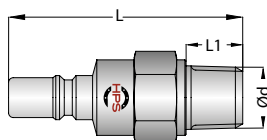
Size		ØD	L	L1	Standard hose tail plug / Nippel mit gerader Standard - Schlauchtülle
6	SPT 06 MHF 08	8 mm	44	23	
6	SPT 06 MHF 10	10 mm	44	23	
9	SPT 09 MHF 12	12 mm	50	28	
12	SPT 12 MHF 12	12 mm	55	28	
12	SPT 12 MHF 16	16 mm	55	28	
16	SPT 06 MHF 19	19 mm	62	28	

Male thread plug with valve for manifold plates /
Verschlussnippel mit Aussengewinde für Multikupplungsplatten



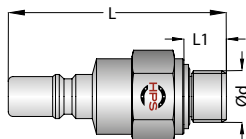
Size		ØD	L	L1	HEX.
6	SPT 06 MOB 17	BSP 3/8	35.5	10	19
9	SPT 09 MOB 21	BSP 1/2	37	12	22
12	SPT 12 MOB 26	BSP 3/4	46	16	27
16	SPT 16 MOB 33	BSP 1	60	22	32

Male thread plug with valve /
Verschlussnippel mit Aussengewinde

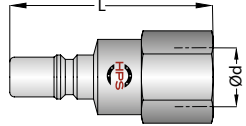


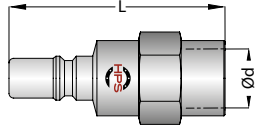
Size		ØD	L	L1	HEX.
6	SPT 06 MRB 13	BSPT 1/4	45	12	17
	SPT 06 MTB 13	NPT 1/4	46	13	17
9	SPT 09 MRB 13	BSPT 1/4	50	12	19
	SPT 09 MRB 17	BSPT 3/8	48	12	19
	SPT 09 MRB 21	BSPT 1/2	51	17	22
	SPT 09 MTB 13	NPT 1/4	52	13	19
12	SPT 09 MTB 17	NPT 3/8	48	12	19
	SPT 12 MRB 17	BSPT 3/8	59	12	24
	SPT 12 MRB 21	BSPT 1/2	63	16	24
	SPT 12 MTB 17	NPT 3/8	59	13	24
16	SPT 12 MTB 21	NPT 1/2	62	16	24
	SPT 16 MRB 26	BSPT 3/4	81	19	32
	SPT 16 MTB 26	NPT 3/4	81	19	32

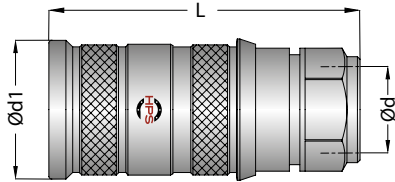
Cylindrical male thread shut-off plug with sealing O-Ring /
Verschlussnippel mit zylindrischem Aussengewinde und O-Ring

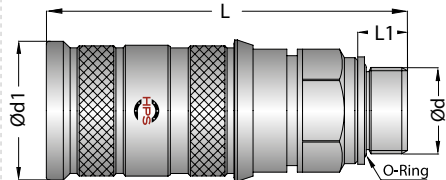


Size		ØD	L	L1	HEX.
6	SPT 06 MMB 10	BSP 1/8 BSP	43	7	17
	SPT 06 MMB 13	1/4	45	9	17
9	SPT 09 MMB 13	BSP 1/4 NPT	48	9	19
	SPT 09 MMB 17	3/8	47	9	20
	SPT 09 MMB 21	BSP 1/2	48	12	24
12	SPT 12 MMB 17	BSP 3/8 BSP	60	11	24
	SPT 12 MMB 21	1/2	60	12	24
	SPT 12 MMB 26	BSP 3/4	59	14	32
16	SPT 16 MMB 26	BSP 3/4	81	14	32

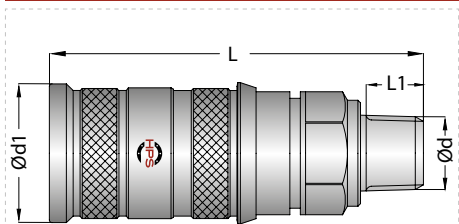
Size		ØD	L	HEX.	Female thread plug / Nippel mit Innengewinde
6	SPT 06 MFF 13	BSP 1/4 NPT	34	17	
	SPT 06 MNF 13	1/4	36	17	
9	SPT 09 MFF 13	BSP 1/4	37	21	
	SPT 09 MFF 17	BSP 3/8	37	21	
	SPT 09 MNF 13	NPT 1/4	37	21	
	SPT 09 MNF 17	NPT 3/8	37	21	
12	SPT 12 MFF 17	BSP 3/8	39	21	
	SPT 12 MFF 21	BSP 1/2	45	27	
	SPT 12 MNF 21	NPT 1/2	47	27	
16	SPT 16 MFF 26	BSP 3/4	61	32	
	SPT 16 MNF 26	NPT 3/4	61	32	

Size		ØD	L	HEX.	Female thread plug with valve / Verschlussnippel mit Innengewinde
6	SPT 06 MFB 13	BSP 1/4 NPT	47	17	
	SPT 06 MNB 13	1/4	47	17	
9	SPT 09 MFB 13	BSP 1/4	49	19	
	SPT 09 MFB 17	BSP 3/8	49	21	
	SPT 09 MNB 13	NPT 1/4	49	19	
	SPT 09 MNB 17	NPT 3/8	49	21	
12	SPT 12 SFB 21	BSP 1/2 NPT	63	27	
	SPT 12 SNB 21	1/2	65	27	
16	SPT 16 SFB 26	BSP 3/4	81	32	
	SPT 16 SNB 26	NPT 3/4	81	32	

Size	With Valve / Mit Ventil	ØD	ØD1	L	HEX.	Cylindrical female thread socket / Kupplung mit Innengewinde zylindrisch
20	SPT 20 FFB 26	BSP 3/4	54	119	41	
	SPT 20 FFB 33	BSP 1	54	120	41	
	SPT 20 FNB 33	NPT 1	54	120	41	
25	SPT 25 FFB 33	BSP 1	60	142	50	
	SPT 25 FFB 42	BSP 1-1/4	60	142	50	
	SPT 25 FNB 33	NPT 1	60	142	50	
	SPT 25 FNB 42	NPT 1-1/4	60	142	50	
38	SPT 38 FFB 48	BSPT 1-1/2	81	151	60	
	SPT 38 FFB 60	BSP 2	81	155	70	

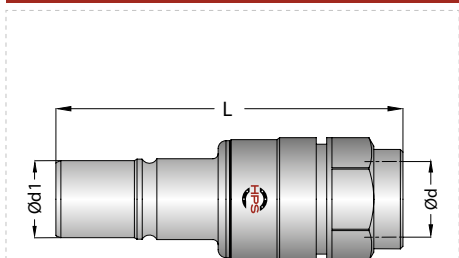
Size	With Valve / Mit Ventil	ØD	ØD1	L	L1	HEX.	Cylindrical male thread socket with O-ring / Kupplung mit Aussengewinde zylindrisch mit O-ring
20	SPT 20 FOB 26	BSP 3/4	54	130	16	60	
	SPT 20 FOB 33	BSP 1	54	131	17	70	
25	SPT 25 FOB 33	BSP 1	60	142	19	50	
	SPT 25 FOB 42	BSP 1-1/4	60	142	19	50	
38	SPT 38 FOB 48	BSP 1-1/2	75	164	22	70	
	SPT 38 FOB 60	BSP 2	75	164	22	70	

Conical male thread socket / Kupplung mit Aussengewinde konisch



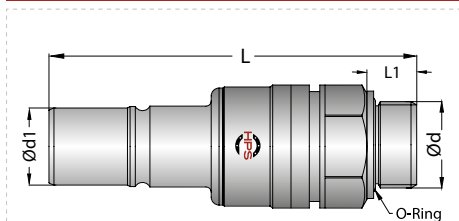
Size	With Valve / Mit Ventil	ØD	ØD1	L	L1	HEX.
20	SPT 20 FTB 33	NPT 1	54	136	22	42
25	SPT 25 FTB 42	NPT 1-1/4	60	144	22	50
38	SPT 38 FTB 48	NPT 1-1/2	75	164	24	70
38	SPT 38 FTB 60	NPT 2	75	166	26	70

Cylindrical female thread plug with valve / Verschlussnippel mit Innengewinde zylindrisch



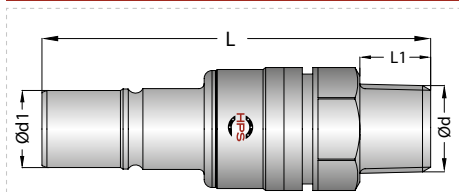
Size	With Valve / Mit Ventil	ØD	ØD1	L	HEX.
20	SPT 20 MFB 26	BSP 3/4	29.5	126	41
	SPT 20 MFB 33	BSP 1	29.5	127	41
	SPT 20 MNB 26	NPT 3/4	29.5	126	41
	SPT 20 MNB 33	NPT 1	29.5	127	41
25	SPT 25 MFB 33	BSP 1	34.5	149	50
	SPT 25 MFB 42	BSP 1-1/4	34.5	149	50
	SPT 25 MNB 33	NPT 1	34.5	149	50
	SPT 25 MNB 42	NPT 1-1/4	34.5	149	50
38	SPT 38 MFB 48	BSP 1-1/2	46.5	158	60
	SPT 38 MFB 60	BSP 1	46.5	160	70

Cylindrical male thread plug with valve / Verschlussnippel mit Aussengewinde zylindrisch



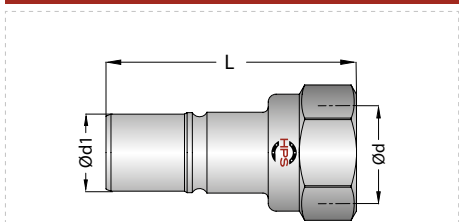
Size	With Valve / Mit Ventil	ØD	ØD1	L	L1	HEX.
20	SPT 20 MOB 26	BSP 3/4	29.5	138	16	41
	SPT 20 MOB 33	BSP 1	29.5	139	17	41
25	SPT 25 MOB 33	BSP 1	34.5	150	19	50
	SPT 25 MOB 42	BSP 1-1/4	34.5	150	19	50
	SPT 25 MOB 48	BSP 1-1/2	34.5	153	22	55

Conical male thread plug with valve / Verschlussnippel mit Aussengewinde konisch

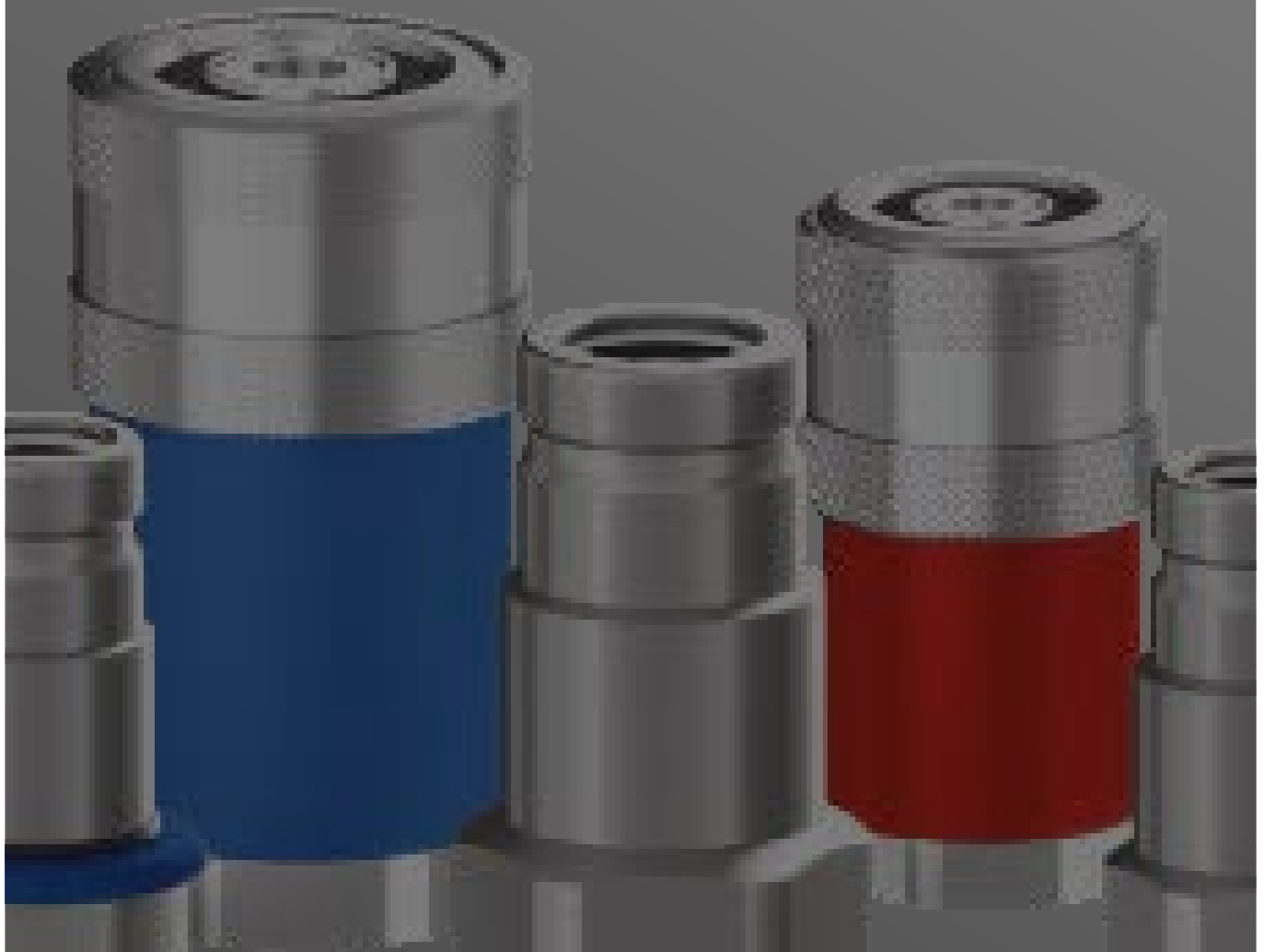


Size	With Valve / Mit Ventil	ØD	ØD1	L	L1	HEX.
20	SPT 20 MTB 33	NPT 1	29.5	146	24	42
25	SPT 25 MTB 48	NPT 1-1/2	34.5	156	24	50

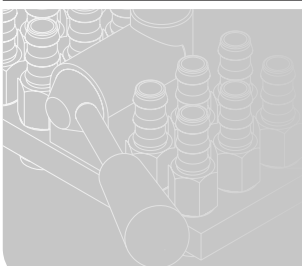
Cylindrical female thread plug / Nippel mit Innengewinde zylindrisch



Size	With Valve / Mit Ventil	ØD	ØD1	L	HEX.
20	SPT 20 MFF 33	BSP 1	29.5	92	41
25	SPT 25 MFF 33	BSP 1	34.5	100	41
25	SPT 25 MFF 42	BSP 1-1/4	34.5	108	50
25	SPT 25 MFF 48	BSP 1-1/2	34.5	108	55



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SHF
High Flow Flat-Face



MONOCOUPPLINGS FOR
HYDRAULICS

INTERNAL USE

????
?????



Characteristics / Eigenschaften

Non spill - flat face
Optimized flow characteristics
One-hand connection
Ergonomic design
Large flow size range
Available in stainless steel
ISO profile

Leckagefrei, flachdichtend
Optimierter Durchfluss
Einhandbedienung
Ergonomisches Design
Große Nennweiten
In Edelstahl erhältlich
ISO Profil

Safe and quick locking Schnelle und sichere Verriegelung

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties IHF series become a comfortable and safe quick connecting and disconnecting coupling system.

Je nach Größe sorgen die Kugeln für eine zuverlässige Verriegelung. Die Verriegelungshülse ist ergonomisch gestaltet. Dank diesen Eigenschaften wird die IHF-Serie zu einem komfortablen Schnellkupplungssystem und garantiert sicheres Ein- und Auskuppeln.



IHF

HIGH FLOW FLAT-FACE

SERIES SHF

TEMPERATURE REGULATION

-- PROFILE FRENCH --

OPTIONS / OPTIONEN

- Color coding
- Safety locking
- Farbkodierung
- Sicherheitsverriegelung

USING AREAS / EINSATZBEREICHE

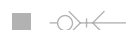
- On thermo regulation
- Injection moulding industries
- Temperierung
- Kunststoffindustrie

Materials

Body Socket	Steel zinc plated
Body Plug	Steel zinc plated
Sleeve	Steel zinc plated
Valve	Steel zinc plated
Locking Ring	Stainless steel
Balls	Stainless steel
Seals	Nitrile (N)

Materialien

Kupplungskörper	Messing
Stecker	Messing
Hülse	Messing
Ventil	Messing
Sprengring	Edelstahl
Kugeln	Edelstahl
Dichtungen	Nitril (N)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 20 °C +100 °C
Fluor Carbon (FPM)	V	- 10 °C +180 °C

Please note the operating instructions for hydraulic couplings / Bitte Gebrauchsanweisung für Hydraulikkupplungen beachten !!

IHF 08 IHF 11 IHF 12



Flow Size
Nennweiten mm

8 11 12



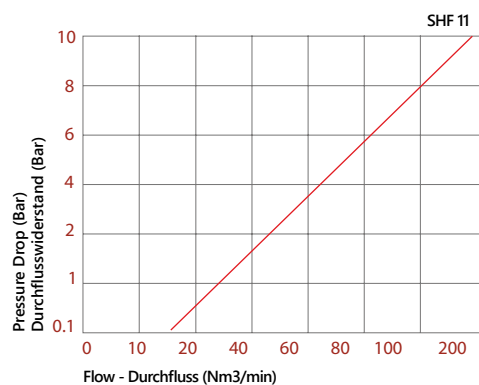
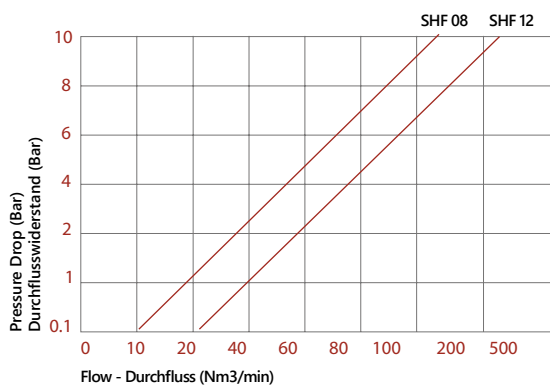
Pressure
Druck bar

450 350 350



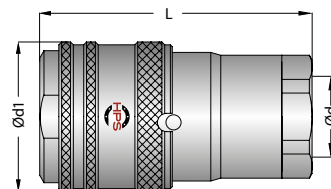
HPS Serie SHF

Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall



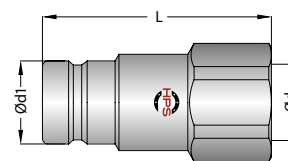
 Size		ØD	ØD1	L1	HEX.
7	SHF 07 SFB 17	BSP 3/8	31.5	58	25
8	SHF 08 SFB 21	BSP 1/2	39	59.5	30
11	SHF 11 SFB 21	BSP 1/2	39	72	30
12	SHF 12 SFB 26	BSP 3/4	50	72	41

Female thread socket / Kupplung mit Innengewinde



 Size		ØD	ØD1	L1	HEX.
7	SHF 07 SHB 17	BSP 3/8	18	50.3	22
8	SHF 08 SHB 21	BSP 1/2	22.8	63	30
11	SHF 11 SHB 21	BSP 1/2	22.8	63	30
12	SHF 12 SHB 26	BSP 3/4	30.8	74	36

Female thread plug / Nippel mit Innengewinde



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TFF
Ultra Flow Flat-Face



MONOKUPPLUNGEN FÜR

for FLUIDS

TFF



11 flow sizes - 11 Nennweiten

Characteristics / Eigenschaften

Non spill - flat face
Optimized flow characteristics
One-hand connection
Ergonomic design
Large flow size range
Available in stainless steel

Leckagefrei, flachdichtend
Optimierter Durchfluss
Einhandbedienung
Ergonomisches Design
Große Nennweiten
In Edelstahl erhältlich



Safe and quick locking Schnelle und sichere Verriegelung

Depending on the size, the balls provide a reliable locking. The locking sleeve is ergonomically designed - thanks to this properties TFF series become a comfortable and safe quick connecting and disconnecting coupling system.

Je nach Größe sorgen die Kugeln für eine zuverlässige Verriegelung. Die Verriegelungshülse ist ergonomisch gestaltet. Dank diesen Eigenschaften wird die TFF-Serie zu einem komfortablen Schnellkupplungssystem und garantiert sicheres Ein- und Auskuppeln.



ULTRA FLOW FLAT FACE

TFF

ULTRA FLOW FLAT FACE

-- PROFILE TFF --

Options / Optionen

- Color coding / Farbkodierung **R / B**
- Stainless Steel / Edelstahl **VA**
- High Temperature / Hochtemperatur **HT**
- Dichtungen

Using areas / Einsatzbereiche

- On thermo regulation / Temperierung
- Injection moulding / Kunststoffindustrie
- Heating oil / Wärmeträgeröl

Materials

Body Socket	Brass
Body Plug	Stainless Steel
Sleeve	Brass
Valve	Brass
Locking Ring	Stainless Steel
Spring	Stainless Steel
Balls	Stainless Steel
Seals	FPM (V)

Materialien

Kupplungskörper	Messing
Stecker	Edelstahl
Hülse	Edelstahl
Ventil	Messing
Sprengring	Edelstahl
Feder	Edelstahl
Kugeln	Edelstahl
Dichtungen	FPM (V)



Temperature range / Temperaturbereich

Nitril (NBR)	N	- 15 °C +100 °C
Fluor Carbon (FPM)	V	- 20 °C +180 °C
Ethylen-Propylen (EPDM)*	E	- 20 °C +150 °C
Perfluor-Elastomer (FFKM)**	W	0 °C +270 °C

*EPDM seals cannot be used with mineral oils and fats. / *EPDM-Dichtungen sind nicht bei mineralischen Ölen und Fetten einsetzbar.

**Stainless steel is recommended from 220 °C. / **Ab 220 °C wird Edelstahl empfohlen.

TFF 03 TFF 06 TFF 08 TFF 10 TFF 12 TFF 16 TFF 20 TFF 25 TFF 32 TFF 38 TFF 50



Flow Size
Nennweiten mm

3 6 8 10 12 16 20 25 32 38 50

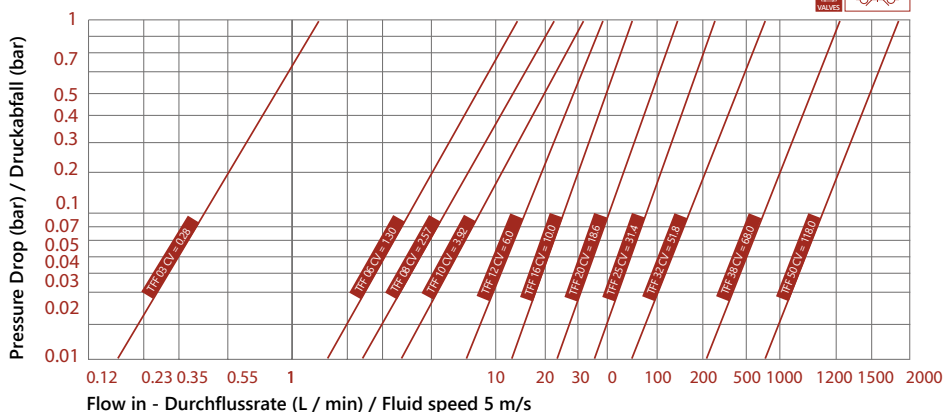


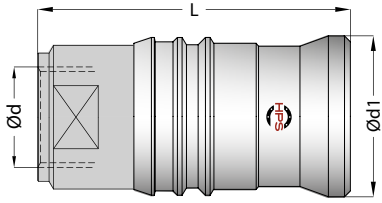
Pressure
Druck bar

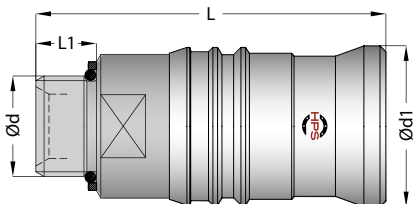
60 60 60 60 60 60 60 40 25 20 15

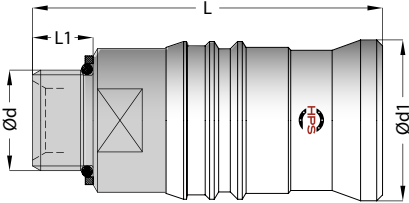
HPS Serie TFF

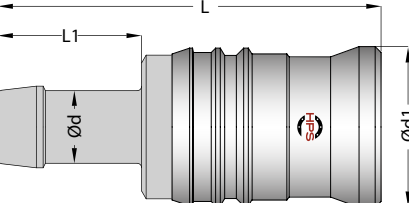
Flow Rate vs Pressure Drop Graph / Durchflussrate und Druckabfall

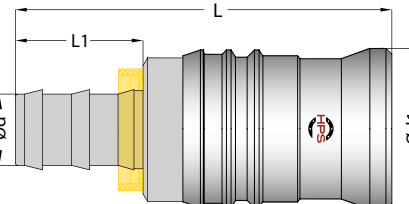


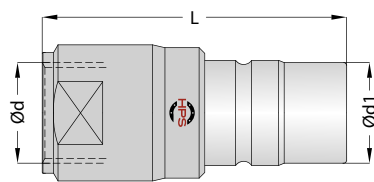
Size		ØD	ØD1	L	HEX.	Female thread socket / Kupplung mit Innengewinde
3	TFF 03 FFB 10	BSP 1/8	16	40	13	
	TFF 03 FNB 10	NPT 1/8	16	40	13	
6	TFF 06 FFB 13	BSP 1/4	22	43	30	
	TFF 06 FNB 13	NPT 1/4	22	43	30	
8	TFF 08 FFB 13	BSP 1/4	26.5	43	22	
	TFF 08 FNB 13	NPT 1/4	26.5	43	22	
	TFF 08 FFB 17	BSP 3/8	26.5	43	22	
	TFF 08 FNB 17	NPT 3/8	26.5	43	22	
10	TFF 10 FFB 17	BSP 3/8	30	54	25	
	TFF 10 FNB 17	NPT 3/8	30	54	25	
12	TFF 12 FFB 21	BSP 1/2	35	56	30	
	TFF 12 FNB 21	NPT 1/2	35	56	30	
16	TFF 16 FFB 26	BSP 3/4	42	81	35	
	TFF 16 FNB 26	NPT 3/4	42	83	35	
20	TFF 20 FFB 33	BSP 1	56	117	50	
	TFF 20 FNB 33	NPT 1	56	117	50	
25	TFF 25 FFB 33	BSP 1	64	119	50	
	TFF 25 FNB 33	NPT 1	64	119	50	
	TFF 25 FFB 42	BSP 1-1/4	64	119	50	
	TFF 25 FNB 42	NPT 1-1/4	64	119	50	
32	TFF 32 FFB 42	BSP 1-1/4	79	116	50	
	TFF 32 FNB 42	NPT 1-1/4	79	116	50	
	TFF 32 FFB 48	BSP 1-1/2	79	116	50	
	TFF 32 FNB 48	NPT 1-1/2	79	116	50	
38	TFF 38 FFB 48	BSP 1-1/2	93	135	60	
	TFF 38 FNB 48	NPT 1-1/2	93	135	60	
	TFF 38 FFB 60	BSP 2	93	142	75	
	TFF 38 FNB 60	NPT 2	93	142	75	
50	TFF 50 FFB 60	BSP 2	118	178	75	
	TFF 50 FNB 60	NPT 2	118	178	75	
	TFF 50 FFB 75	BSP 2-1/2	118	178	90	
	TFF 50 NB 75	NPT 2-1/2	118	178	90	

Size		ØD	ØD1	L	L1	HEX.	Male thread socket / Kupplung mit Aussengewinde
3	TFF 03 FMB 10	BSP 1/8	16	39	7	14	
6	TFF 06 FMB 13	BSP 1/4	22	43	10	19	
	TFF 06 FMB 17	BSP 3/8	22	43	10	20	
8	TFF 08 FMB 13	BSP 1/4	26.5	43	10	22	
	TFF 08 FMB 17	BSP 3/8	26.5	44	11	22	
10	TFF 10 FMB 17	BSP 3/8	29	52	11	25	
	TFF 10 FMB 21	BSP 1/2	29	53	12	25	
12	TFF 12 FMB 17	BSP 3/8	35	54	11	30	
	TFF 12 FMB 21	BSP 1/2	35	55	12	30	
16	TFF 16 FMB 21	BSP 1/2	42	80	12	35	
	TFF 16 FMB 26	BSP 3/4	42	83	16	35	

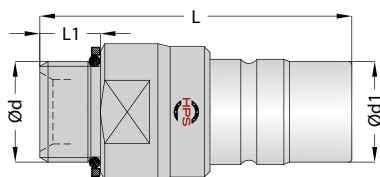
Male thread Socket / Kupplung mit Aussengewinde	Size		ØD	ØD1	L	L1	HEX.
	20	TFF 20 FMB 26	BSP 3/4	56	114	16	50
		TFF 20 FMB 33	BSP 1	56	117	19	50
	25	TFF 25 FMB 33	BSP 1	64	128	19	55
		TFF 25 MFB 42	BSP 1-1/4	64	128	19	55
	32	TFF 32 MFB 42	BSP 1-1/4	79	126	19	55
		TFF 32 MFB 48	BSP 1-1/2	79	129	22	60
	38	TFF 38 MFB 48	BSP 1-1/2	93	139	22	60
		TFF 38 MFB 60	BSP 2	93	140	23	65
	50	TFF 50 MFB 60	BSP 2	118	177	23	75
		TFF 50 MFB 75	BSP 2-1/2	118	184	25	90

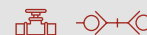
Standard hose tail socket / Kupplung mit Standard Schlauchtülle	Size		ØD	ØD1	L	L1
	3	TFF 03 FHB 03	3 mm	16	50	18
		TFF 03 FHB 06	6 mm	16	55	23
	6	TFF 06 FHB 06	6 mm	22	56	23
		TFF 06 FHB 08	8 mm	22	56	23
	8	TFF 08 FHB 08	8 mm	26.5	58	23
		TFF 08 FHB 10	10 mm	26.5	58	23
	10	TFF 10 FHB 10	10 mm	30	65	23
		TFF 10 FHB 12	12 mm	30	70	28
	12	TFF 12 FHB 12	12 mm	35	69	28
		TFF 12 FHB 16	16 mm	35	69	28
	16	TFF 16 FHB 16	16 mm	42	91	28
		TFF 16 FHB 19	19 mm	42	97	33

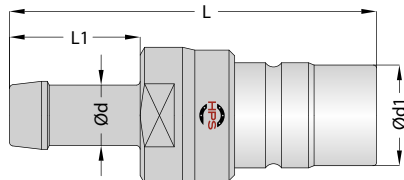
Clampless hose tail socket / Kupplung mit Schnellsteck Schlauchtülle	Size		ØD	ØD1	L	L1
	6	TFF 06 FPB 10	6 mm	22	57	24
	8	TFF 08 FPB 08	8 mm	26.5	59	24
		TFF 08 FPB 10	10 mm	26.5	59	28
	10	TFF 10 FPB 10	10 mm	30	66	24
		TFF 10 FPB 13	13 mm	30	71	28
	12	TFF 12 FPB 13	13 mm	35	69	28
		TFF 12 FPB 16	16 mm	35	69	28
	16	TFF 16 FPB 16	16 mm	42	92	28
		TFF 16 FPB 19	19 mm	42	102	38

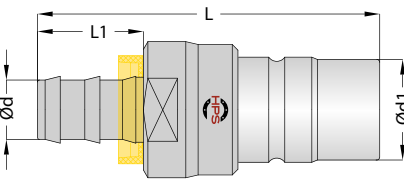
Size		ØD	ØD1	L	HEX.	Female thread plug / Nippel mit Innengewinde
3	TFF 03 MFB10	BSP 1/8	7.7	32.5	13	
	TFF 03 MNB 10	NPT 1/8	7.7	32.5	13	
6	TFF 06 MFB 13	BSP 1/4	11.7	44	17	
	TFF 06 MNB 13	NPT 1/4	11.7	44	17	
8	TFF 08 MFB 13	BSP 1/4	14.3	53	17	
	TFF 08 MNB 13	NPT 1/4	14.3	53	17	
	TFF 08 MFB 17	BSP 3/8	14.3	53	17	
	TFF 08 MNB 17	NPT 3/8	14.3	53	17	
10	TFF 10 MFB 17	BSP 3/8	17.5	64	25	
	TFF 10 MNB 17	NPT 3/8	17.5	64	25	
12	TFF 12 MFB 21	BSP 1/2	20.5	68	30	
	TFF 12 MNB 21	NPT 1/2	20.5	68	30	
16	TFF 16 MFB 26	BSP 3/4	27	73	35	
	TFF 16 MNB 26	NPT 3/4	27	75	35	
20	TFF 20 MFB 33	BSP 1	34	98	41	
	TFF 20 MNB 33	NPT 1	34	99	41	
25	TFF 25 MFB 33	BSP 1	41.5	97	50	
	TFF 25 MNB 33	NPT 1	41.5	98	50	
	TFF 25 MFB 42	BSP 1-1/4	41.5	97	50	
	TFF 25 MNB 42	NPT 1-1/4	41.5	98	50	
32	TFF 32 MFB 42	BSP 1-1/4	53	102	50	
	TFF 32 MNB 42	NPT 1-1/4	53	102	50	
	TFF 32 MFB 48	BSP 1-1/2	53	104	60	
	TFF 32 MNB 48	NPT 1-1/2	53	104	60	
38	TFF 38 MFB 48	BSP 1-1/2	66	112	60	
	TFF 38 MNB 48	NPT 1-1/2	66	112	60	
	TFF 38 MFB 60	BSP 2	66	116	75	
	TFF 38 MNB 60	NPT 2	66	116	75	
50	TFF 50 MFB 60	BSP 2	82.5	144	75	
	TFF 50 MNB 60	NPT 2	82.5	144	75	
	TFF 50 MFB 75	BSP 2-1/2	82.5	147	90	
	TFF 50 MNB 75	NPT 2-1/2	82.5	147	90	

Male thread plug with o-ring /
Nippel mit Aussengewinde und o-ring



 Size		ØD	ØD1	L	L1	HEX.
3	TFF 03 FMB 10	BSP 1/8	7.7	32	7	13
6	TFF 06 FMB 13	BSP 1/4	11.7	45	10	17
8	TFF 08 FMB 13	BSP 1/4	14.3	52	10	22
	TFF 08 FMB 17	BSP 3/8	14.3	53	11	22
10	TFF 10 FMB 17	BSP 3/8	17.5	61	11	25
	TFF 10 FMB 21	BSP 1/2	17.5	62	12	25
12	TFF 12 FMB 17	BSP 3/8	20.5	66	11	30
	TFF 12 FMB 21	BSP 1/2	20.5	67	12	30
16	TFF 16 FMB 21	BSP 1/2	27	69	12	35
	TFF 16 FMB 26	BSP 3/4	27	73	16	35
20	TFF 20 FMB 26	BSP 3/4	34	92	16	41
	TFF 20 FMB 33	BSP 1	34	95	19	41
25	TFF 25 FMB 33	BSP 1	41.5	102	19	50
	TFF 25 FMB 42	BSP 1-1/4	41.5	102	19	50
32	TFF 32 FMB 42	BSP 1 1/4	53	110	19	55
	TFF 32 FMB 48	BSP 1-1/2	53	113	22	60
38	TFF 38 FMB 48	BSP 1 1/2	66	122	22	60
	TFF 38 FMB 60	BSP 2	66	128	23	70
50	TFF 50 FMB 60	BSP 2	82.5	151	23	75
	TFF 50 FMB 75	BSP 2-1/2	82.5	153	25	90

Size		ØD	ØD1	L	L1	Standard hose tail plug / Nippel mit Standard Schlauchtülle
3	TFF 03 MHB 03	3 mm	7.7	43	18	
	TFF 03 MHB 06	6 mm	7.7	48	23	
6	TFF 06 MHB 06	6 mm	11.7	58	23	
	TFF 06 MHB 08	8 mm	11.7	58	23	
8	TFF 08 MHB 08	8 mm	14.3	64	23	
	TFF 08 MHB 10	10 mm	14.3	64	23	
10	TFF 10 MHB 10	10 mm	17.5	75	23	
	TFF 10 MHB 12	12 mm	17.5	80	28	
12	TFF 12 MHB 12	12 mm	20.5	81	28	
	TFF 12 MHB 16	16 mm	20.5	81	28	
16	TFF 16 MHB 16	16 mm	27	84	28	
	TFF 16 MHB 19	19 mm	27	89	33	

Size		ØD	ØD1	L	L1	Clampless hose tail plug / Nippel mit Schnellsteck Schlauchtülle
6	TFF 06 MPB 10	10 mm	11.7	59	24	
8	TFF 08 MPB 08	8 mm	14.3	65	24	
	TFF 08 MPB 10	10 mm	14.3	65	28	
10	TFF 10 MPB 10	10 mm	17.5	75	23	
	TFF 10 MPB 13	13 mm	17.5	80	28	
12	TFF 12 MPB 13	13 mm	20.5	81	28	
	TFF 12 MPB 16	16 mm	20.5	81	28	
16	TFF 16 MPB 16	16 mm	27	85	28	
	TFF 16 MPB 19	19 mm	27	95	38	

ONLY FOR INT

INTERNAL USE

PROFILE TYPES



EHC



Flow Size / Nennweiten

EHC 08 - 08 mm
EHC 10 - 10 mm



Number of Connections / Anschlüsse

SHC 08 - 6
SHC 10 - 6



Pressure / Druck

0 - 200 bar



Temperature range / Temperaturbereich

-5°C +200°C FPM (V)

SPECIFICATIONS / EIGENSCHAFTEN

Tool set-up optimization through central locking
Avoidance of mistakes through fixed hoses on the plates
Many connection options

Rüstzeitoptimierung durch zentrale Verriegelung
Fehlervermeidung durch feste Anordnung der Schläuche auf den Platten
Viele Anschlussmöglichkeiten

OPTIONS / OPTIONEN

Color coding on the plates
Screw option

Farbkodierung der Platten
Spindel Variante

USING AREAS / EINSATZBEREICHE

Injection moulding industries
Die casting
Test benches

Kunststoffindustrie
Alu Druckguss
Prüfstände

INTERNAL USE

MULTICOUPLINGS FOR HYDRAULICS / **SERIES SHC**



 Lever / Hebel

 Locking unit / Verriegelungsblock

 Nippel / Nippeleinsatz

 Plate mobile side / Trägerplatte Versorgerseite



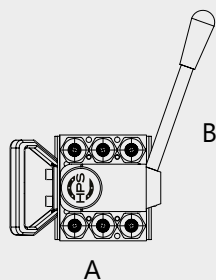
 Plug / Nippeleinsatz

 Plate fixed side / Trägerplatte Abnehmerseite

Multicoupling Series EHC - Multikupplung Serie EHC

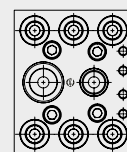
Dimensions - Abmessungen

Machine side - Maschinenseite



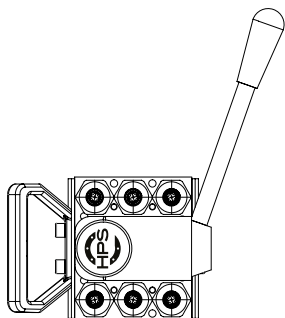
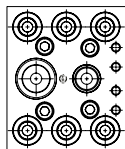
Flow Size / Nennweite 8mm

Fixed side - Werkzeugseite



D

C

Machine Side	Mold Side	A	B	C	D	n	DN
		110	134	110	134	6	8

Multicoupling Series EHC - Multikupplung Serie EHC

Machine Side Item Codes - Maschinenseite Artikelnummer



PS EHC 08 - C - X

PS Press side / Maschinenseite

EHC SHC profile / SHC Profil

08 Flow size / Nennweite

C Connections / Anschlüsse

6 3 Circuits / 3 Kreisläufe

X Plug / Nippeleinsatz



Plug with valve / Nippeleinsatz mit Ventil

MFB 17 Female thread BSP 3/8" / Innengewinde

MFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

MNB 17 Female thread NPT 3/8" / Innengewinde NPT 3/8"

MNB 21 Female thread NPT 1/2" / Innengewinde NPT 1/2"



Multicoupling Series EHC - Multikupplung Serie EHC

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS EHC 08 C X



Socket / Kupplungseinsatz X

Connections / Anschlüsse C

12 3 Circuits / 6 Kreisläufe

Flow size / Nennweite 08

SHC profile / SHC Profil SHC

Mold side / Werkzeugseite MS



Socket with valve / Kupplungseinsatz mit Ventil

FFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

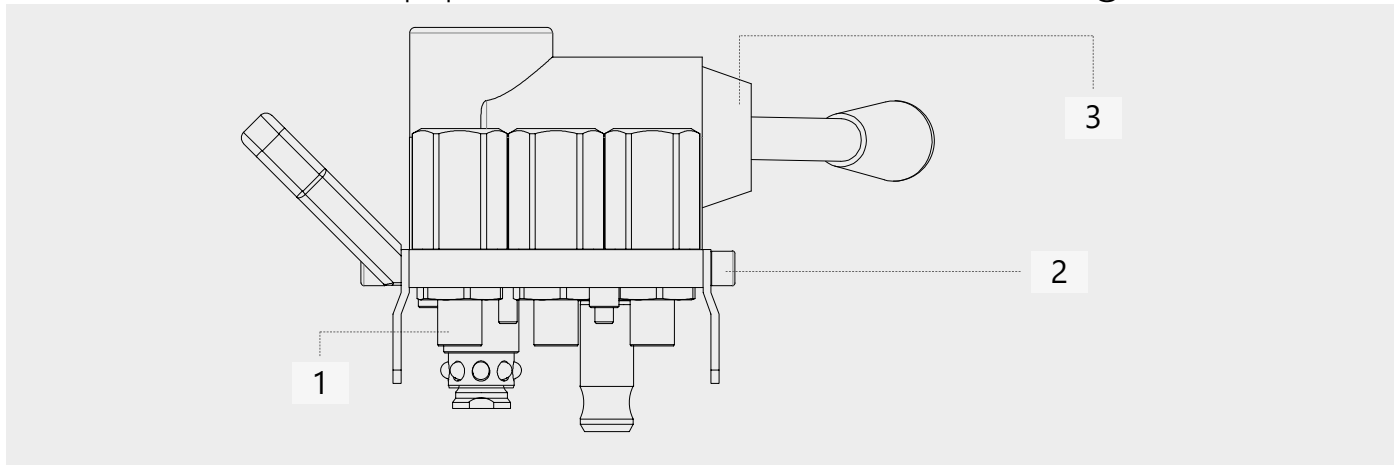
FFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

FNB 17 Female thread NPT 3/8" / Innengewinde NPT 3/8"

FNB 21 Female thread NPT 1/2" / Innengewinde NPT 1/2"

Multicoupling Series EHC - Multikupplung Serie EHC

Machine Side Item Equipment - Maschinenseite Bestückung

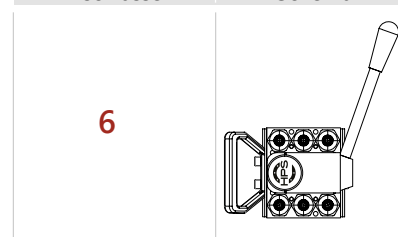


Assemblies Baugruppen

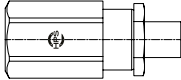
		Description / Beschreibung
PS EHC.08-6 MFB 17		Female thread BSP 3/8" Innengewinde BSP 3/8"
PS EHC.08-6 MFB 21		Female thread BSP 1/2" Innengewinde BSP 1/2"
PS EHC.08-6 MNB 17		Female thread NPT 3/8" Innengewinde NPT 3/8"
PS EHC.08-6 MNB 21		Female thread NPT 1/2" Innengewinde NPT 1/2"

Connections Anschlüsse

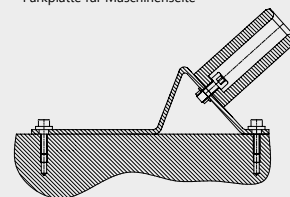
Schema Schema



Spare parts / Einzelteile

N		Description / Beschreibung
1	M EHC.08 MFB 17	Plug with female thread BSP 3/8" Nippel mit Innengewinde BSP 3/8"
	M EHC.08 MFB 21	Plug with female thread BSP 1/2" Nippel mit Innengewinde BSP 1/2"
	M EHC.08 MNB 17	Plug with female thread NPT 3/8" Nippel mit Innengewinde NPT 3/8"
	M EHC.08 MNB 21	Plug with female thread NPT 1/2" Nippel mit Innengewinde NPT 1/2"
		
		Description / Beschreibung
2	PS EHC.08-06	Machine side only with locking unit for 6 connections Maschinenseite für 6 Anschlüsse mit Verriegelungseinheit
3	L-UNIT BG7	Locking unit size 7 Verriegelungseinheit Baugröße 7

Parking plate for machine side
Parkplatte für Maschinenseite



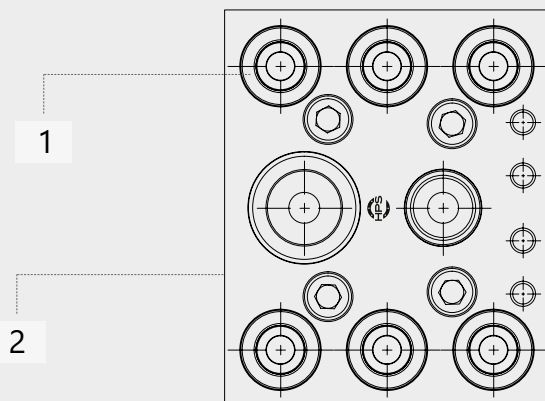
MS EHC.08-06 PP

Spindle for the screwed version
Spindel für die Schraubversion



PS EHC.08-06 LP

Multicoupling Series EHC - Multikupplung Mold Side Item Equipment - Werkzeugseite Bestückung



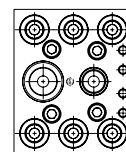
Assemblies Baugruppen

		Description / Beschreibung
MS EHC.08-6 FFB 17		Female thread BSP 3/8" Innengewinde BSP 3/8"
MS EHC.08-6 FFB 21		Female thread BSP 1/2" Innengewinde BSP 1/2"
MS EHC.08-6 FNB 17		Female thread NPT 3/8" Innengewinde NPT 3/8"
MS EHC.08-6 FNB 21		Female thread NPT 1/2" Innengewinde NPT 1/2"

Connections Anschlüsse

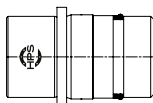
6

Schema Schema



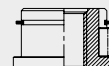
Spare parts / Einzelteile

N		Description / Beschreibung
1	M EHC.08. FAB 00	Socket for assembly Einbaukupplung



		Description / Beschreibung
2	MS EHC.08-06 F17	Mold side for 6 connections without sockets (female BSP 3/8" Werkzeugseite für 6 Anschlüsse ohne Kupplungen (Innengewinde BSP 3/8")
	MS EHC.08-06 F21	Mold side for 6 connections without sockets (female BSP 1/2" Werkzeugseite für 6 Anschlüsse ohne Kupplungen (Innengewinde BSP 1/2")
	MS EHC.08-06 N17	Mold side for 6 connections without sockets (female NPT 3/8" Werkzeugseite für 6 Anschlüsse ohne Kupplungen (Innengewinde NPT 3/8")
	MS EHC.08-06 N21	Mold side for 6 connections without sockets (female NPT 1/2" Werkzeugseite für 6 Anschlüsse ohne Kupplungen (Innengewinde NPT 1/2")

Bush for the screwed version
Buchse für die Schraubversion

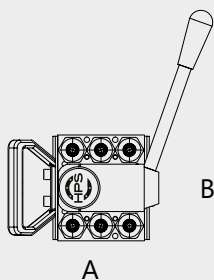


MS EHC.08-06 LN

Multicoupling Series EHC - Multikupplung Serie EHC

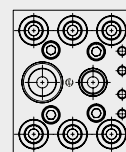
Dimensions - Abmessungen

Machine side - Maschinenseite



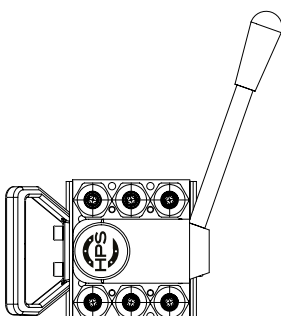
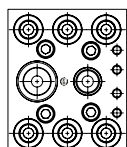
Flow Size / Nennweite 8mm

Fixed side - Werkzeugseite



D

C

Machine Side	Mold Side	A	B	C	D	n	DN
		110	134	110	134	6	8

Multicoupling Series EHC - Multikupplung Serie EHC

Machine Side Item Codes - Maschinenseite Artikelnummer



PS EHC 10 - C - X

PS Press side / Maschinenseite

EHC SHC profile / SHC Profil

10 Flow size / Nennweite

C Connections / Anschlüsse

6 3 Circuits / 3 Kreisläufe

X Plug / Nippeleinsatz



Plug with valve / Nippeleinsatz mit Ventil

MFB 17 Female thread BSP 3/8" / Innengewinde

MFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

MNB 17 Female thread NPT 3/8" / Innengewinde NPT 3/8"

MNB 21 Female thread NPT 1/2" / Innengewinde NPT 1/2"



Multicoupling Series EHC - Multikupplung Serie EHC

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS EHC 10 C X



Socket / Kupplungseinsatz **X**

Connections / Anschlüsse **C**

12 3 Circuits / 6 Kreisläufe

Flow size / Nennweite **10**

SHC profile / SHC Profil **SHC**

Mold side / Werkzeugseite **MS**



Socket with valve / Kupplungseinsatz mit Ventil

FFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

FFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

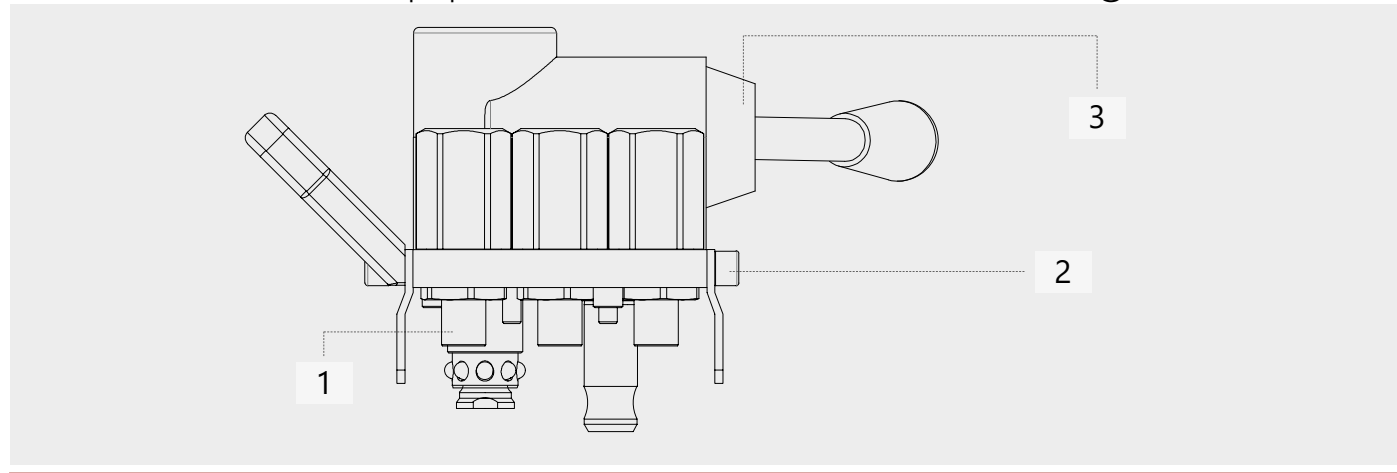
FNB 17 Female thread NPT 3/8" / Innengewinde NPT 3/8"

FNB 21 Female thread NPT 1/2" / Innengewinde NPT 1/2"

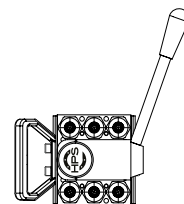


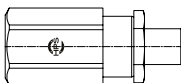
Multicoupling Series EHC - Multikupplung Serie EHC

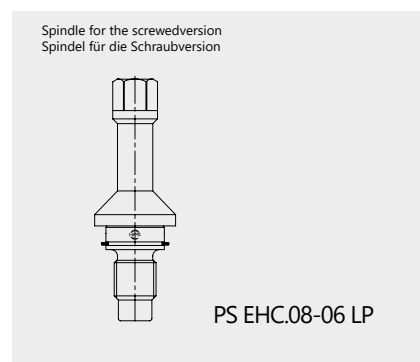
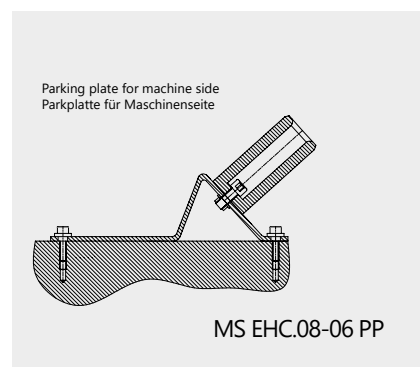
Machine Side Item Equipment - Maschinenseite Bestückung



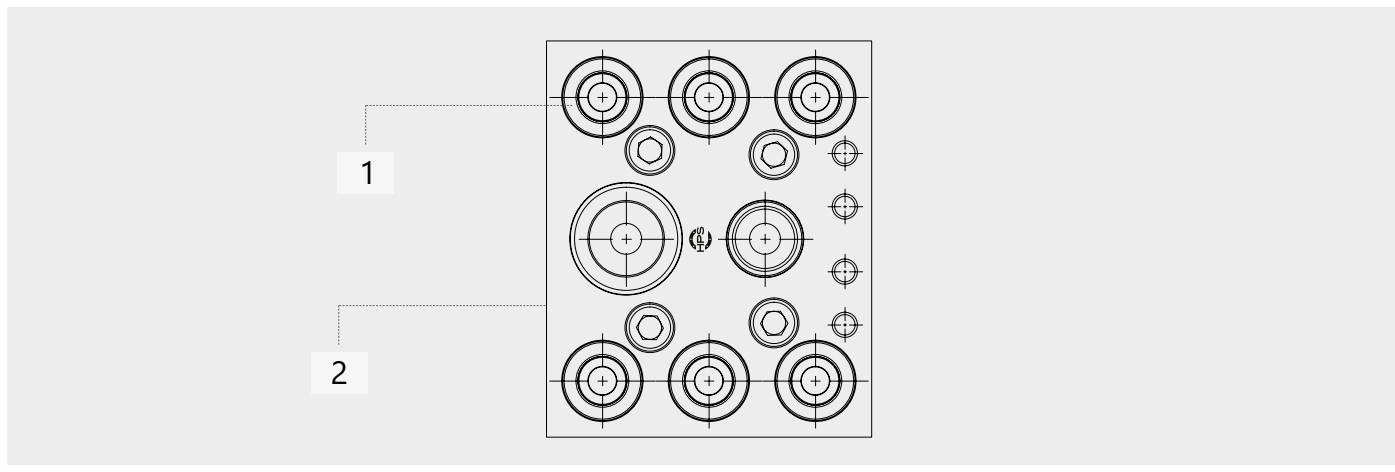
Assemblies Baugruppen		Description / Beschreibung
	PS EHC.10-6 MFB 17	Female thread BSP 3/8" Innengewinde BSP 3/8"
	PS EHC.10-6 MFB 21	Female thread BSP 1/2" Innengewinde BSP 1/2"
	PS EHC.10-6 MNB 17	Female thread NPT 3/8" Innengewinde NPT 3/8"
	PS EHC.10-6 MNB 21	Female thread NPT 1/2" Innengewinde NPT 1/2"

Connections Anschlüsse	Scheme Schema
6	

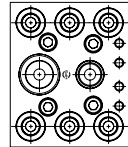
Spare parts / Einzelteile	N		Description / Beschreibung
	1	M EHC.10 MFB 17	Plug with female thread BSP 3/8" Nippel mit Innengewinde BSP 3/8"
		M EHC.10 MFB 21	Plug with female thread BSP 1/2" Nippel mit Innengewinde BSP 1/2"
		M EHC.10 MNB 17	Plug with female thread NPT 3/8" Nippel mit Innengewinde NPT 3/8"
		M EHC.10 MNB 21	Plug with female thread NPT 1/2" Nippel mit Innengewinde NPT 1/2"
			
			Description / Beschreibung
	2	PS EHC.08-06	Machine side only with locking unit for 6 connections Maschinenseite für 6 Anschlüsse mit Verriegelungseinheit
	3	L-UNIT BG7	Locking unit size 7 Verriegelungseinheit Baugröße 7

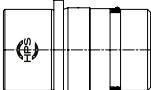


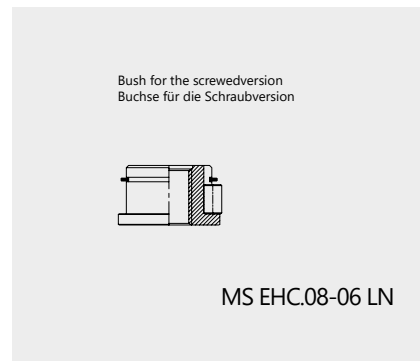
Multicoupling Series EHC - Multikupplung



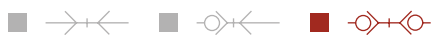
Assemblies Baugruppen		Description / Beschreibung
	MS EHC.08-6 FFB 17	Female thread BSP 3/8" Innengewinde BSP 3/8"
	MS EHC.08-6 FFB 21	Female thread BSP 1/2" Innengewinde BSP 1/2"
	MS EHC.08-6 FNB 17	Female thread NPT 3/8" Innengewinde NPT 3/8"
	MS EHC.08-6 FNB 21	Female thread NPT 1/2" Innengewinde NPT 1/2"

Connections Anschlüsse	Schema Schema
6	

Spare parts / Einzelteile	N		Description / Beschreibung
	1	M EHC.10. FAB 00	Socket for assembly Einbaukupplung
			
			Description / Beschreibung
	2		MS EHC.10-06 F17 MS EHC.10-06 F21 MS EHC.10-06 N17 MS EHC.10-06 N21



PROFILE TYPES



SHC



Flow Size / Nennweiten

SHC 03 - 03 mm
SHC 05 - 05 mm



Number of Connections / Anschlüsse

SHC 03 - 12-16
SHC 05 - 12-16



Pressure / Druck

0 - 100 bar



Temperature range / Temperaturbereich

-5°C +160°C FPM (V)

SPECIFICATIONS / EIGENSCHAFTEN

Tool set-up optimization through central locking
Avoidance of mistakes through fixed hoses on the plates
Many connection options

Rüstzeitoptimierung durch zentrale Verriegelung
Fehlervermeidung durch feste Anordnung der Schläuche auf den Platten
Viele Anschlussmöglichkeiten

OPTIONS / OPTIONEN

Color coding on the plates
Safety locking unit

Farbkodierung der Platten
Sicherheitsoption für die Verriegelungseinheit

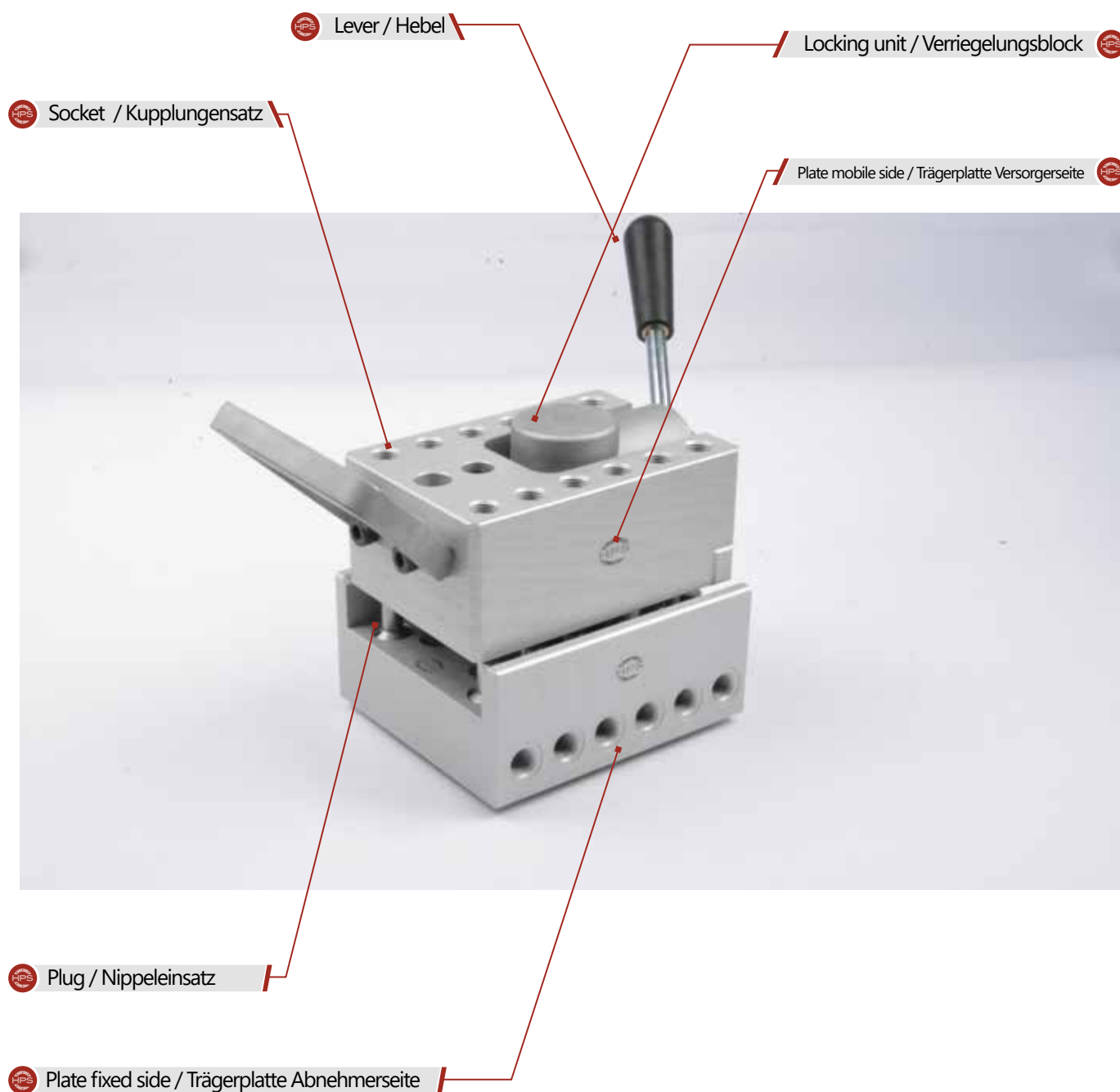
USING AREAS / EINSATZBEREICHE

Cascades
Injection moulding industries
Die casting
Test benches

Kaskadensteuerung
Kunststoffindustrie
Alu Druckguss
Prüfstände

INTERNAL USE

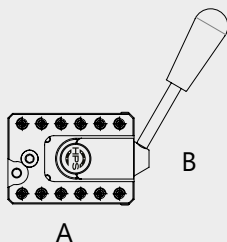
MULTICOUPLINGS FOR HYDRAULICS / SERIES SHC



Multicoupling Series SHC - Multikupplung Serie SHC

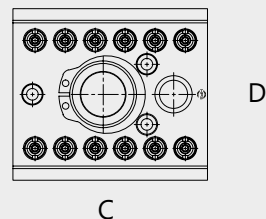
Dimensions - Abmessungen

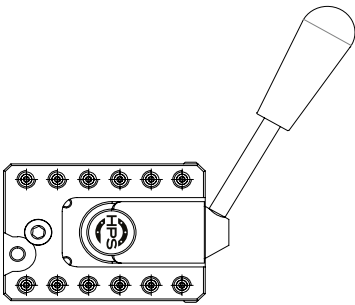
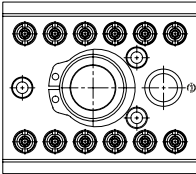
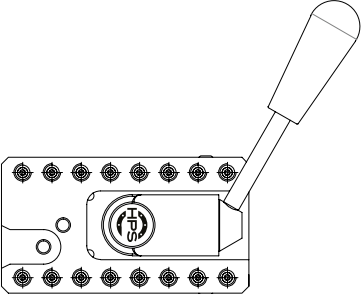
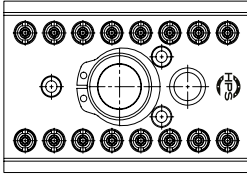
Machine side - Maschinenseite



Flow Size / Nennweite 3mm

Fixed side - Werkzeugseite



Machine Side	Mold Side	A	B	C	D	n	DN
		110	79	110	97	6	3
		144	79	110	97	8	3

Multicoupling Series SHC - Multikupplung Serie SHC

Machine Side Item Codes - Maschinenseite Artikelnummer



PS SHC 03 - C - X

PS Press side / Maschinenseite

SHC SHC profile / SHC Profil

03 Flow size / Nennweite

C Connections / Anschlüsse

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

X Socket / Kupplungseinsatz



Socket with valve / Kupplungseinsatz mit Ventil

FFB 10 Female thread BSP 1/8" / Innengewinde BSP 1/8"



FNB 10 Female thread NPT 1/8" / Innengewinde NPT 1/8"

FRB 10 Female thread BSPT 1/8" / Innengewinde BSPT 1/8"

Multicoupling Series SHC - Multikupplung Serie SHC

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS SHC 03 C X



Plug / Nippeleinsatz **X**

Connections / Anschlüsse **C**

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

Flow size / Nennweite **03**

SHC profile / SHC Profil **SHC**

Mold side / Werkzeugseite **MS**



Plug with valve / Nippeleinsatz mit Ventil

MFB 10 Female thread BSP 1/8" / Innengewinde BSP 1/8"

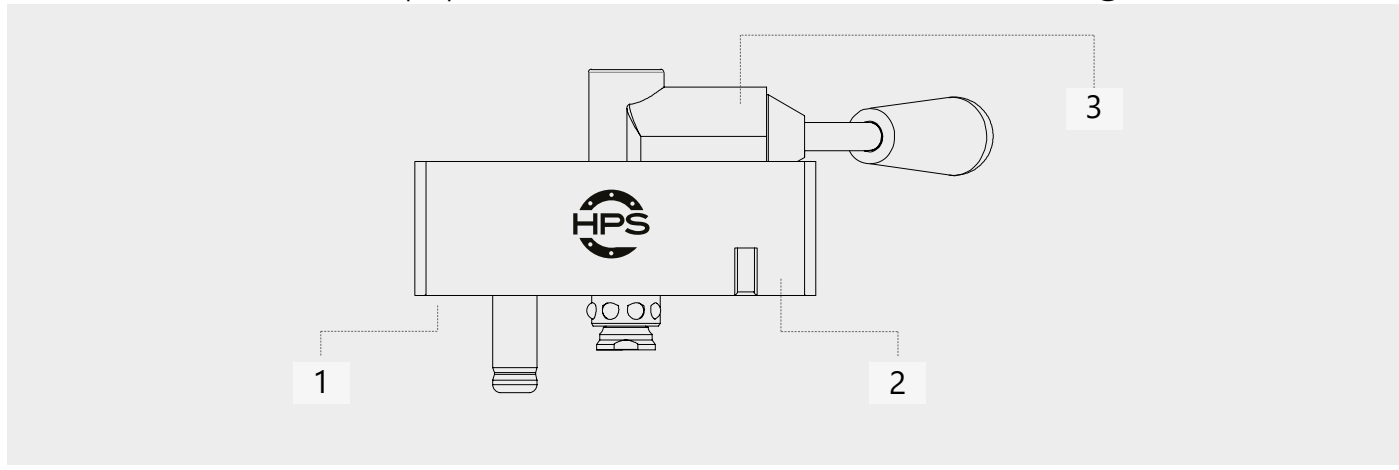


MNB 10 Female thread NPT 1/8" / Innengewinde NPT 1/8"

MRB 10 Female thread BSPT 1/8" / Innengewinde BSPT 1/8"

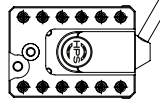
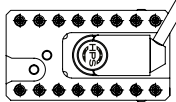
Multicoupling Series SHC - Multikupplung Serie SHC

Machine Side Item Equipment - Maschinenseite Bestückung

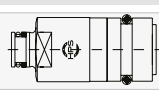


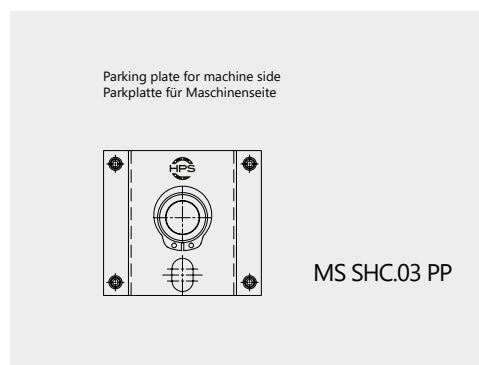
Assemblies Baugruppen

		Description / Beschreibung
PS SHC.03- X FFB 10		Female thread BSP 1/8" Innengewinde BSP 1/8"
PS SHC.03- X FRB 10		Female thread BSPT 1/8" Innengewinde BSPT 1/8"
PS SHC.03- X FNB 10		Female thread NPT 1/8" Innengewinde NPT 1/8"

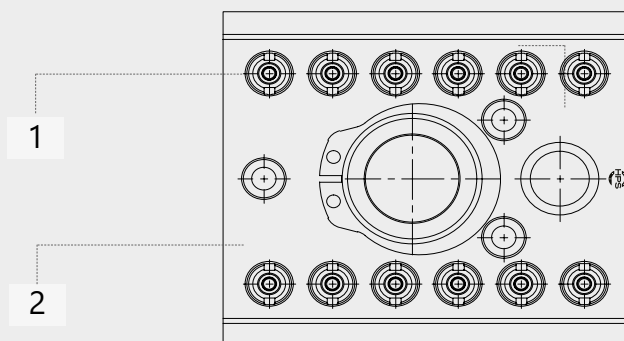
Connections Anschlüsse	Schema Schema
12	
16	

Spare parts / Einzelteile

N		Description / Beschreibung
1	M SHC.03 FAB	Socket for assembly Kupplungseinsatz für den Einbau 
		Description / Beschreibung
2	PS SHC.03-12	Machine side only with locking unit for 12 connections Maschinenseite nur mit Verriegelungseinheit für 12 Anschlüsse
	PS SHC.03-16	Machine side only with locking unit for 16 connections Maschinenseite nur mit Verriegelungseinheit für 16 Anschlüsse
3	L-UNIT BG1	Locking unit size 5 for 12 connections Verriegelungseinheit Baugröße 3 für 12 Anschlüsse
	L-UNIT BG1	Locking unit size 5 for 16 connections Verriegelungseinheit Baugröße 4 für 16 Anschlüsse



Multicoupling Series SHC - Multikupplung Mold Side Item Equipment - Werkzeugseite Bestückung

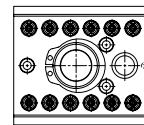
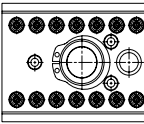


Assemblies Baugruppen

		Description / Beschreibung
MS SHC.03-X FFB 10		Female thread BSP 1/8" Innengewinde BSP 1/8"
MS SHC.03-X FRB 10		Female thread BSPT 1/8" Innengewinde BSPT 1/8"
MS SHC.03-X FNB 10		Female thread NPT 1/8" Innengewinde NPT 1/8"

Connections Anschlüsse

Schema Schema

12	
16	

Spare parts Einzelteile

N		Description / Beschreibung
1	SHC.03 MMB 0810	Plug male thread M14x1,5 Nippel mit Aussengewinde M14x1,5
		Description / Beschreibung
2	MS SHC.03-12	Mold side only with locking bush for 12 connections Werkzeugseite nur mit Verriegelungsbuchse für 12 Anschlüsse
	MS SHC.03-16	Mold side only with locking bush for 16 connections Werkzeugseite nur mit Verriegelungsbuchse für 16 Anschlüsse

Assembling tool for the plug flow size 3mm
Montagewerkzeugseite nur den Nippel DN3mm

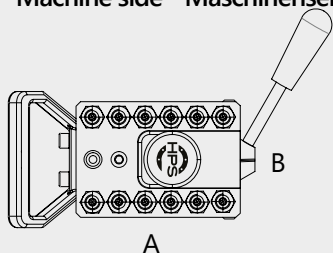


SHC.03 MAT

Multicoupling Series SHC - Multikupplung Serie SHC

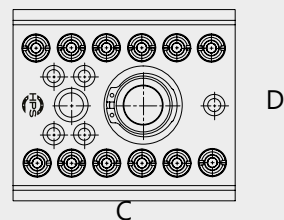
Dimensions - Abmessungen

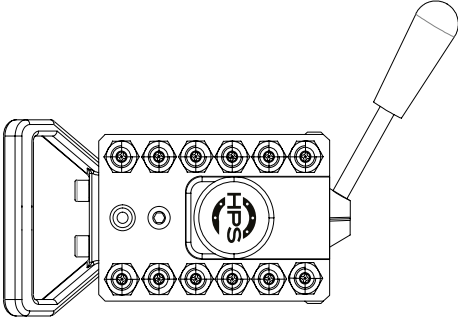
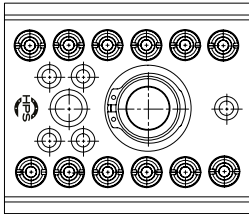
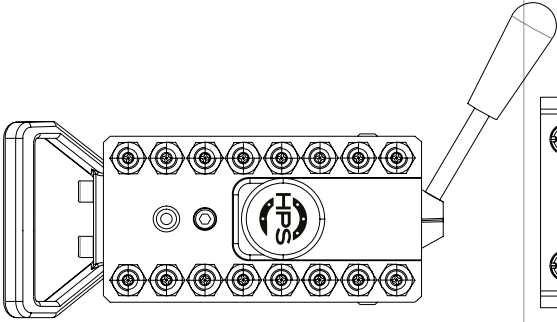
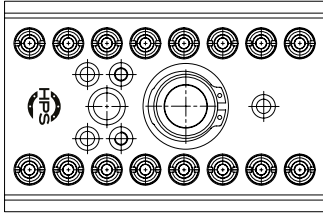
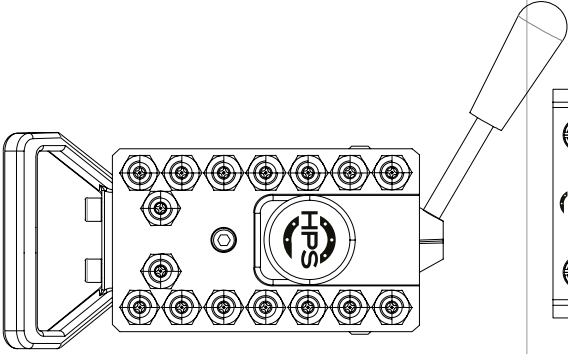
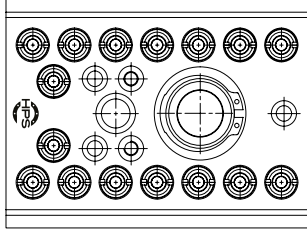
Machine side - Maschinenseite



Flow Size / Nennweite 5mm

Fixed side - Werkzeugseite



Machine Side	Mold Side	A	B	C	D	n	DN
		145	102	145	125	6	5
		191	102	191	125	8	5
		168	102	168	125	8	5

Multicoupling Series SHC - Multikupplung Serie SHC

Machine Side Item Codes - Maschinenseite Artikelnummer



PS SHC 05 - C - X

PS Press side / Maschinenseite

SHC SHC profile / SHC Profil

05 Flow size / Nennweite

C Connections / Anschlüsse

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

X Socket / Kupplungseinsatz



Socket with valve / Kupplungseinsatz mit Ventil

FFB 13 Female thread BSP 1/4" / Innengewinde BSP 1/4"



FNB 13 Female thread NPT 1/4" / Innengewinde NPT 1/4"

FRB 13 Female thread BSPT 1/4" / Innengewinde BSPT 1/4"

Multicoupling Series SHC - Multikupplung Serie SHC

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS SHC 05 C M



Plug / Nippeleinsatz **M**

Connections / Anschlüsse **C**

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

Flow size / Nennweite **05**

SHC profile / SHC Profil **SHC**

Mold side / Werkzeugseite **MS**



Plug with valve / Nippeleinsatz mit Ventil

MFB 13 Female thread BSP 1/4" / Innengewinde BSP 1/4"

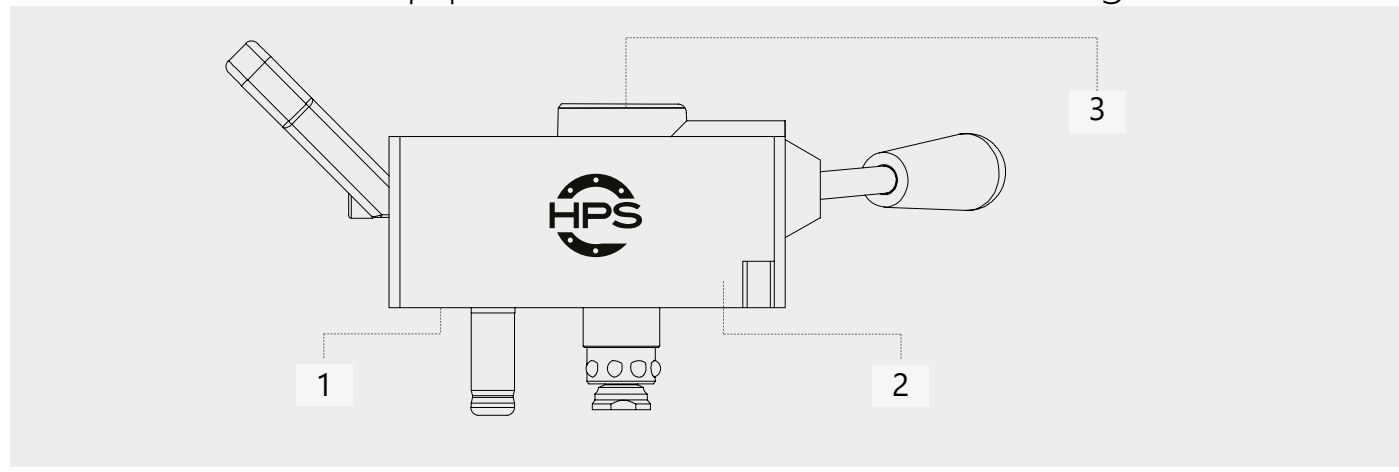


MNB 13 Female thread NPT 1/4" / Innengewinde NPT 1/4"

MRB 13 Female thread BSPT 1/4" / Innengewinde BSPT 1/4"

Multicoupling Series SHC - Multikupplung Serie SHC

Machine Side Item Equipment - Maschinenseite Bestückung



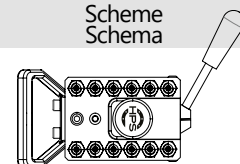
Assemblies Baugruppen

		Description / Beschreibung
PS SHC.05-X FFB 13		Female thread BSP 1/4" Innengewinde BSP 1/4"
PS SHC.05-X FRB 13		Female thread BSPT 1/4" Innengewinde BSPT 1/4"
PS SHC.05-X FNB 13		Female thread NPT 1/4" Innengewinde NPT 1/4"

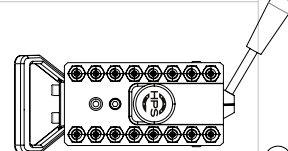
Connections Anschlüsse

Schema Schema

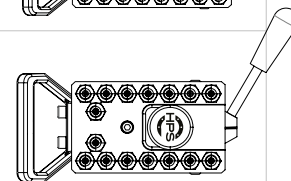
12



16



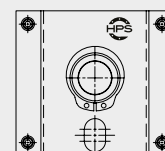
16-01



Spare parts / Einzelteile

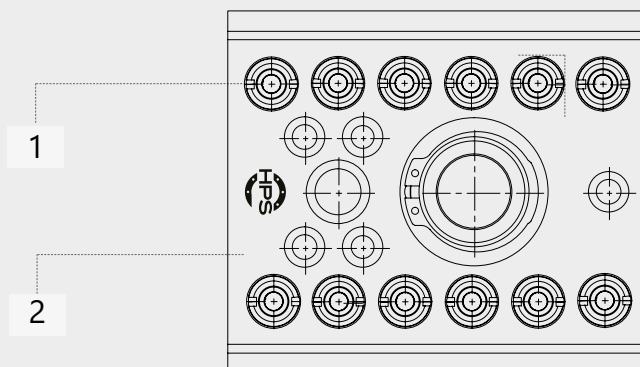
N		Description / Beschreibung
1	M SHC.05 FAB	Socket for assembly Kupplungseinsatz für den Einbau
		Description / Beschreibung
2	PS SHC.05-12	Machine side only with locking unit for 12 connections Maschinenseite nur mit Verriegelungseinheit für 12 Anschlüsse
	PS SHC.05-16	Machine side only with locking unit for 16 connections Maschinenseite nur mit Verriegelungseinheit für 16 Anschlüsse
	PS SHC.05-16-01	Machine side only with locking unit for 16 connections Maschinenseite nur mit Verriegelungseinheit für 16 Anschlüsse
3	L-UNIT BG5	Locking unit size 5 for 12 and 16-01 connections Verriegelungseinheit Baugröße 5 für 12 und 16-01 Anschlüsse
	L-UNIT BG6	Locking unit size 6 for 16 connections Verriegelungseinheit Baugröße 6 für 16 Anschlüsse

Parking plate for machine side
Parkplatte für Maschinenseite



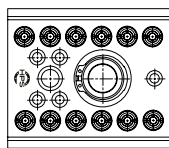
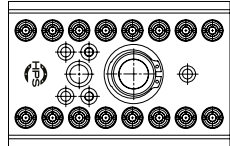
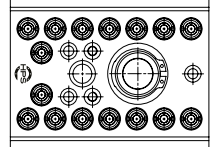
MS SHC.05 PP

Multicoupling Series SHC - Multikupplung Mold Side Item Equipment - Werkzeugseite Bestückung

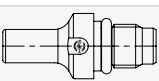


Assemblies Baugruppen

		Description / Beschreibung
MS SHC.05-X FFB 13		Female thread BSP 1/4" Innengewinde BSP 1/4"
MS SHC.05-X FRB 13		Female thread BSPT 1/4" Innengewinde BSPT 1/4"
MS SHC.05-X FNB 13		Female thread NPT 1/4" Innengewinde NPT 1/4"

Connections Anschlüsse	Scheme Schema
12	
16	
16-01	

Spare parts Einzelteile

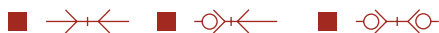
N		Description / Beschreibung
1	SHC.05 MMB 1415	Plug male thread M14x1,5 Nippel mit Aussengewinde M14x1,5 
		Description / Beschreibung
2	MS SHC.05-12	Mold side only with locking bush for 12 connections Werkzeugseite nur mit Verriegelungsbuchse für 12 Anschlüsse
	MS SHC.05-16	Mold side only with locking bush for 16 connections Werkzeugseite nur mit Verriegelungsbuchse für 16 Anschlüsse
	MS SHC.05-16-01	Mold side only with locking bush for 16-01 connections Werkzeugseite nur mit Verriegelungsbuchse für 16-01 Anschlüsse

Assembling tool for the plug flow size 5mm
Montagewerkzeugseite nur den Nippel DN 5mm



SHC.05 MAT 14

PROFILE TYPES



APT

EPT

SPT



Flow Size / Nennweiten

APT 06 - 06 mm
APT 09 - 09 mm
APT 15 - 13 mm

EPT 06 - 06 mm
EPT 09 - 09 mm
EPT 13 - 13 mm

SPT 09 - 09 mm
SPT 12 - 12 mm
SPT 16 - 16 mm



Number of Connections / Anschlüsse

APT 06 - 6-20
APT 09 - 6-24
APT 15 - 6-24

EPT 06 - 6-20
EPT 09 - 6-24
EPT 13 - 6-24

SPT 09 - 6-24
SPT 12 - 6-20
SPT 16 - 12



Pressure / Druck

0 - 16 bar



Temperature range / Temperaturbereich

-5°C +160°C FPM (V) (Water / Wasser)
-5°C +200°C FPM (V) (Heating Oil / Wärmeträgeröl)

SPECIFICATIONS / EIGENSCHAFTEN

Tool set-up optimization through central locking
Avoidance of mistakes through fixed hoses on the plates
Many connection options
The connectors are compatible with the monocouplings of the respective series (APT / EPT / SPT)

Rüstzeitoptimierung durch zentrale Verriegelung
Fehlervermeidung durch feste Anordnung der Schläuche auf den Platten
Viele Anschlussmöglichkeiten
Die Anschlüsse sind kompatibel mit den monokupplungen der jeweiligen Serien (APT / EPT / SPT)

OPTIONS / OPTIONEN

Color coding on the plates
Stainless Steel option for plates, connectors and locking unit
High temperature option for connectors
Safety locking unit

Farbkodierung der Platten
Edelstahloption für Platten, Anschlüsse und Verriegelungseinheit
Hochtemperaturoption für die Anschlüsse
Sicherheitsopstion für dier Verriegelungseinheit

USING AREAS / EINSATZBEREICHE

On thermo regulation
Injection moulding industries
Die casting
Test benches

Temperierung
Kunststoffindustrie
Alu Druckguss
Prüfstände

INTERNAL USE

MULTICOUPLINGS FOR FLUIDS / SERIES APT - EPT - SPT



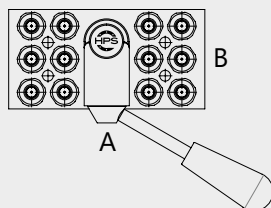
Registered Community Design



Multicoupling Series SPT - Multikupplung Serie SPT

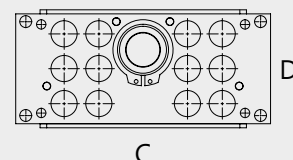
Dimensions - Abmessungen

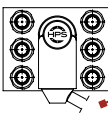
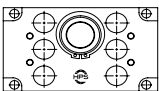
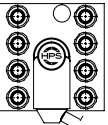
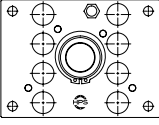
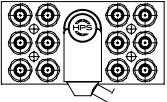
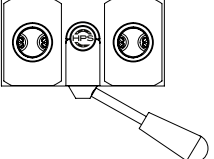
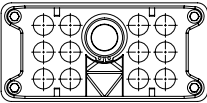
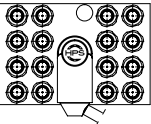
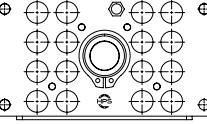
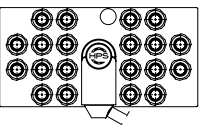
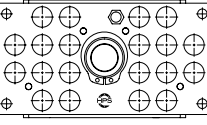
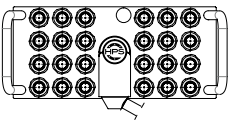
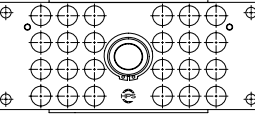
Machine side - Maschinenseite



Flow Size / Nennweite 9mm

Fixed side - Werkzeugseite



Machine Side	Mold Side	A	B	C	D	n	DN
 Lever / Hebel		102	78	140	82	6	9
		102	104	140	104	8	9
		154	78	190	82	12	9
		154	78	190	82	12	9
		154	103	190	104	16	9
		226	103	206	104	20	9
		226	103	258	104	24	9



Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Codes - Maschinenseite Artikelnummer



PS SPT 09 - C - X

PS Press side / Maschinenseite

SPT SPT profile / SPT Profil

09 Flow size / Nennweite

C Connections / Anschlüsse

6 3 Circuits / 3 Kreisläufe

8 4 Circuits / 4 Kreisläufe

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

20 10 Circuits / 10 Kreisläufe

24 12 Circuits / 12 Kreisläufe

X Socket / Kupplungseinsatz



n	Socket with valve / Kupplungseinsatz mit Ventil
	FHB 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm FHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm
	FPB 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm FPB 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm
	FFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

	Socket without valve / Kupplungseinsatz ohne Ventil
	FHF 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm FHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm
	FPF 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm FPF 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm
	FFF 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

Multicoupling Series SPT - Multikupplung Serie SPT

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS SPT 09 C - X - Y



Elbow / Winkel **Y**

Plug / Nippeleinsatz **X**

Connections / Anschlüsse **C**

6	3 Circuits / 3 Kreisläufe
8	4 Circuits / 4 Kreisläufe
12	6 Circuits / 6 Kreisläufe
16	8 Circuits / 8 Kreisläufe
20	10 Circuits / 10 Kreisläufe
24	12 Circuits / 12 Kreisläufe

Flow size / Nennweite **09**

SPT profile / SPT Profil **SPT**

Mold side / Werkzeugseite **MS**



Plug with valve / Nippeleinsatz mit Ventil



MHB 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

MHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



MPB 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

MPB 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



MFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"



Plug without valve / Nippeleinsatz ohne Ventil



MHF 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

MHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



MPF 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

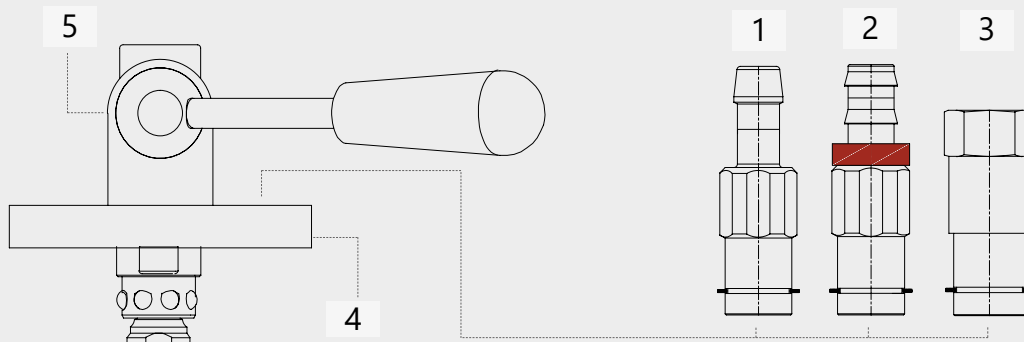
MPF 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



MFF 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

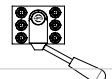
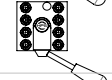
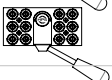
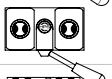
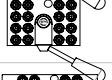
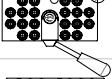
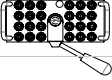
Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Equipment - Maschinenseite Bestückung



Assemblies Baugruppen

N			Description / Beschreibung
1	PS SPT.09- X FHB 10	PS SPT.09- X FHF 10	Standard hose tail Ø 10mm Standardschlauchtülle Ø 10mm
	PS SPT.09- X FHB 12	PS SPT.09- X FHF 12	Standard hose tail Ø 12mm Standardschlauchtülle Ø 12mm
2	PS SPT.09- X FPB 10	PS SPT.09- X FPF 10	Clampless hose tail Ø 10mm Schnellstecktülle Ø 10mm
	PS SPT.09- X FPB 13	PS SPT.09- X FPF 13	Clampless hose tail Ø 13mm Schnellstecktülle Ø 13mm
3	PS SPT.09- X FFB 17	PS SPT.09- X FFF 17	Female thread BSP 3/8" Innengewinde BSP 3/8"
	PS SPT.09- X FNB 17	PS SPT.09- X FNF 17	Female thread NPT 3/8" Innengewinde NPT 3/8"
	PS SPT.09-12 33 C		Collector with female thread BSP 1" Sammler mit Innengewinde BSP 1"
	PS SPT.09-12 42 C		Collector with female thread BSP 1 1/4" Sammler mit Innengewinde BSP 1 1/4"

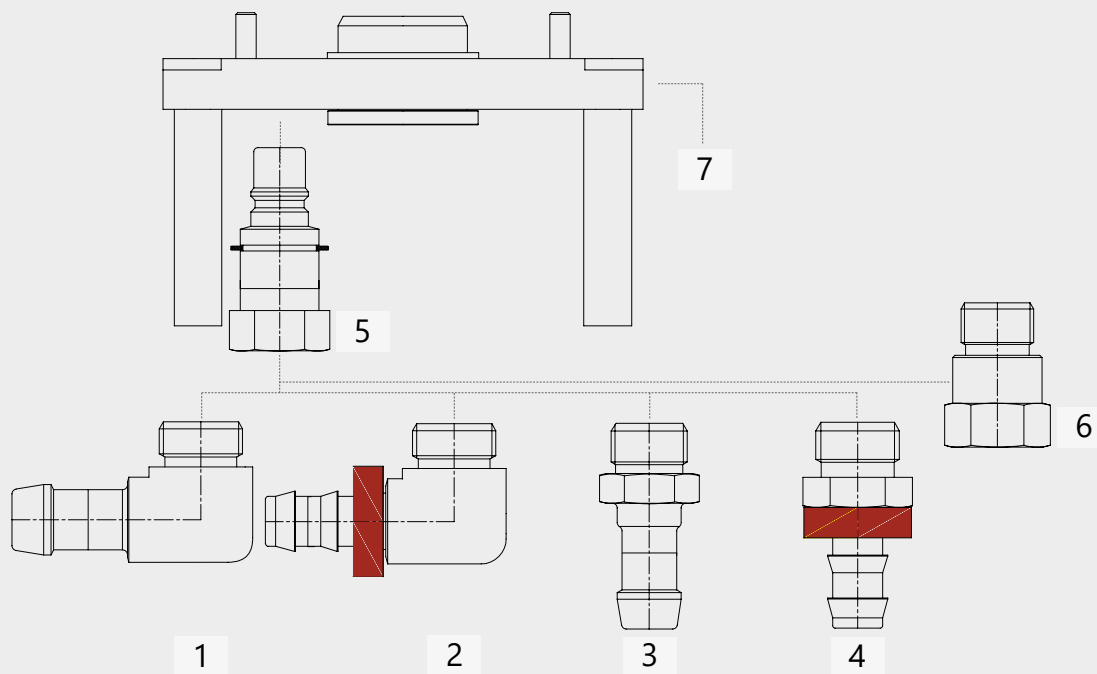
Connections Anschlüsse	Schema Schema
6	
8	
12	
12	
16	
20	
20	
20C	

Spare parts / Einzelteile

N			Description / Beschreibung
1	M SPT.09 FHB 10	M SPT.09 FHF 10	Socket with standard hose tail Ø 10mm Kupplung mit Standardschlauchtülle Ø 10mm
	M SPT.09 FHB 12	M SPT.09 FHF 12	Socket with standard hose tail Ø 12mm Kupplung mit Standardschlauchtülle Ø 12mm
2	M SPT.09 FPB 10	M SPT.09 FPF 10	Socket with clampless hose tail Ø 10mm Kupplung mit Schnellstecktülle Ø 10mm
	M SPT.09 FPB 13	M SPT.09 FPF 13	Socket with clampless hose tail Ø 13mm Kupplung mit Schnellstecktülle Ø 13mm
3	M SPT.09 FFB 17	M SPT.09 FFF 17	Socket with female thread BSP 3/8" Kupplung mit Innengewinde BSP 3/8"
	M SPT.09 FNB 17	M SPT.09 FNF 17	Socket with female thread NPT 3/8" Kupplung mit Innengewinde NPT 3/8"

N		Description / Beschreibung
4	PS SPT.09- X	Machine side only with locking unit Maschinenseite nur mit Verriegelungseinheit
5	L-UNIT BG1	Locking unit size 1 Verriegelungseinheit Baugröße 1

Multicoupling Series SPT - Multikupplung Serie SPT Mold Side Item Equipment - Werkzeugseite Bestückung



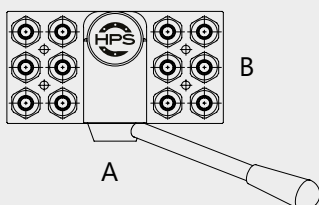
Assemblies / Baugruppen	N			Description / Beschreibung	Connections Anschlüsse	Schema Schema
	1	MS SPT.09-X MHB 10-90	MS SPT.09-X MHF 10-90	Plug + 90° elbow with standard hose tail Ø 10mm Nippel + 90° Winkelstandardschlauchtülle Ø 10mm	6	
		MS SPT.09-X MHB 12-90	MS SPT.09-X MHF 12-90	Plug + 90° elbow with standard hose tail Ø 12mm Nippel + 90° Winkelstandardschlauchtülle Ø 12mm		
	2	MS SPT.09-X MPB 10-90	MS SPT.09-X MPF 10-90	Plug + 90° elbow with clampless hose tail Ø 10mm Nippel + 90° Winkelschnellstecktülle Ø 10mm	8	
		MS SPT.09-X MPB 13-90	MS SPT.09-X MPF 13-90	Plug + 90° elbow with clampless hose tail Ø 13mm Nippel + 90° Winkelschnellstecktülle Ø 13mm		
	3	MS SPT.09-X MHB 10	MS SPT.09-X MHF 10	Plug + adapter with standard hose tail Ø 10mm Nippel + Standardschlauchtülle Ø 10mm	12	
		MS SPT.09-X MHB 12	MS SPT.09-X MHF 12	Plug + adapter with standard hose tail Ø 12mm Nippel + Standardschlauchtülle Ø 12mm		
	4	MS SPT.09-X MPB 10	MS SPT.09-X MPF 10	Plug + adapter with clampless hose tail Ø 10mm Nippel + Schnellstecktülle Ø 10mm	12K	
		MS SPT.09-X MPB 13	MS SPT.09-X MPF 13	Plug + adapter with clampless hose tail Ø 13mm Nippel + Schnellstecktülle Ø 13mm		
	5	MS SPT.09-X MFB 17	MS SPT.09-X MFF 17	Plug female thread BSP 3/8" Nippel mit Innengewinde BSP 3/8"	16	
		MS SPT.09-X MNB 17	MS SPT.09-X MNF 17	Plug female thread NPT 3/8" Nippel mit Innengewinde NPT 3/8"		

Spare parts / Einzelteile	N	Code	Description / Beschreibung	
	1	ELH 17/10-90	Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm Aussengewinde BSP 3/8" - 90° Winkelstandardschlauchtülle Ø 10mm	
		ELH 17/12-90	Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm Aussengewinde BSP 3/8" - 90° Winkelstandardschlauchtülle Ø 12mm	
	2	ELP 17/10-90	Male BSP 3/8" - 90° elbow with clampless hose tail Ø 10mm Aussengewinde BSP 3/8" - 90° Winkelschnellstecktülle Ø 10mm	
		ELP 17/13-90	Male BSP 3/8" - 90° elbow with clampless hose tail Ø 13mm Aussengewinde BSP 3/8" - 90° Winkelschnellstecktülle Ø 13mm	
	3	MHA 17/10	Male BSP 3/8" adapter with standard hose tail Ø 10mm Aussengewinde BSP 3/8" Standardschlauchtülle Ø 10mm	
		MHA 17/12	Male BSP 3/8" adapter with standard hose tail Ø 12mm Aussengewinde BSP 3/8" Standardschlauchtülle Ø 12mm	
	4	MPA 17/10	Male BSP 3/8" adapter with clampless hose tail Ø 10mm Aussengewinde BSP 3/8" Schnellstecktülle Ø 10mm	
		MPA 17/13	Male BSP 3/8" adapter with clampless hose tail Ø 13mm Aussengewinde BSP 3/8" Schnellstecktülle Ø 13mm	
	5	M SPT.09 MFB 17	Plug female thread BSP 3/8" with valve Nippel Innengewinde BSP 3/8" mit Ventil	
		M SPT.09 MFF 17	Plug female thread NPT 3/8" without valve Nippel Innengewinde NPT 3/8" ohne Ventil	
	6	MFE 17/17-20	Male female extension BSP 3/8" Aussengewinde / Innengewinde Verlängerung BSP 3/8"	
	7	MS SPT.09-X	Mold side not equipped Werkzeugseite unbestückt	

Multicoupling Series SPT - Multikupplung Serie SPT

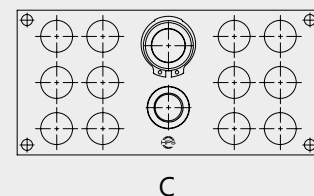
Dimensions - Abmessungen

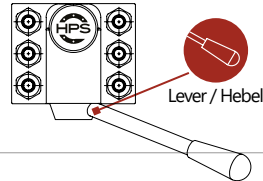
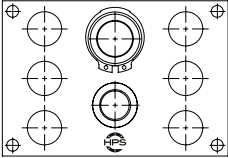
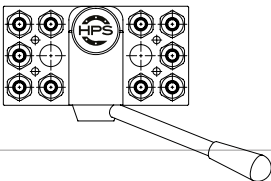
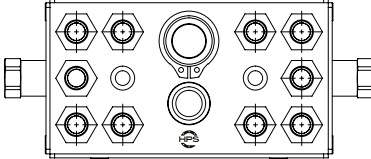
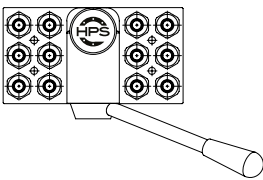
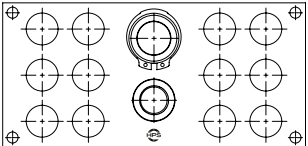
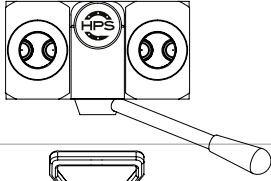
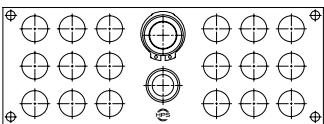
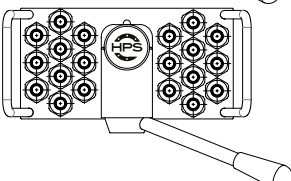
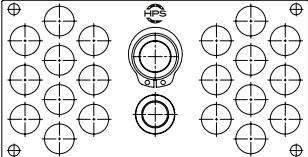
Machine side - Maschinenseite



Flow Size / Nennweite 12mm

Fixed side - Werkzeugseite



Machine Side	Mold Side	A	B	C	D	n	DN
		136	110	160	110	6	12
		203	110	216	120	10	12
		203	110	230	110	12	12
		270	110	300	110	18	12
		250	130	250	130	20	12

Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Codes - Maschinenseite Artikelnummer



PS SPT 12 - C - X

PS Press side / Maschinenseite

SPT SPT profile / SPT Profil

12 Flow size / Nennweite

C Connections / Anschlüsse

6	3 Circuits / 3 Kreisläufe
10	5 Circuits / 5 Kreisläufe
12	6 Circuits / 6 Kreisläufe
18	9 Circuits / 9 Kreisläufe
20	10 Circuits / 10 Kreisläufe

X Socket / Kupplungseinsatz



Socket with valve / Kupplungseinsatz mit Ventil



FHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm

FHB 16 Standard hose type Ø 16mm / Standardschlauchtülle Ø 16mm



FPB 13 Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm

FPB 16 Clampless hose type Ø 16mm / Schnellstecktülle Ø 16mm



FFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"



Socket without valve / Kupplungseinsatz ohne Ventil



FHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm

FHF 16 Standard hose type Ø 16mm / Standardschlauchtülle Ø 16mm



FPF 13 Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm

FPF 16 Clampless hose type Ø 16mm / Schnellstecktülle Ø 16mm



FFF 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

Multicoupling Series SPT - Multikupplung Serie SPT

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS SPT 12 C - X - Y



Elbow / Winkel **Y**

Plug / Nippeleinsatz **X**

Connections / Anschlüsse **C**

6	3 Circuits / 3 Kreisläufe
10	5 Circuits / 5 Kreisläufe
12	6 Circuits / 6 Kreisläufe
18	9 Circuits / 9 Kreisläufe
20	10 Circuits / 10 Kreisläufe

Flow size / Nennweite **12**

SPT profile / SPT Profil **SPT**

Mold side / Werkzeugseite **MS**



Plug with valve / Nippeleinsatz mit Ventil



MHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm

MHB 16 Standard hose type Ø 13mm / Standardschlauchtülle Ø 16mm



MPB 13 Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm

MPB 16 Clampless hose type Ø 13mm / Schnellstecktülle Ø 16mm



MFB 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"



Plug without valve / Nippeleinsatz ohne Ventil



MHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm

MHF 16 Standard hose type Ø 16mm / Standardschlauchtülle Ø 16mm



MPF 13 Clampless hose type Ø 13mm / Schnellstecktülle Ø 13mm

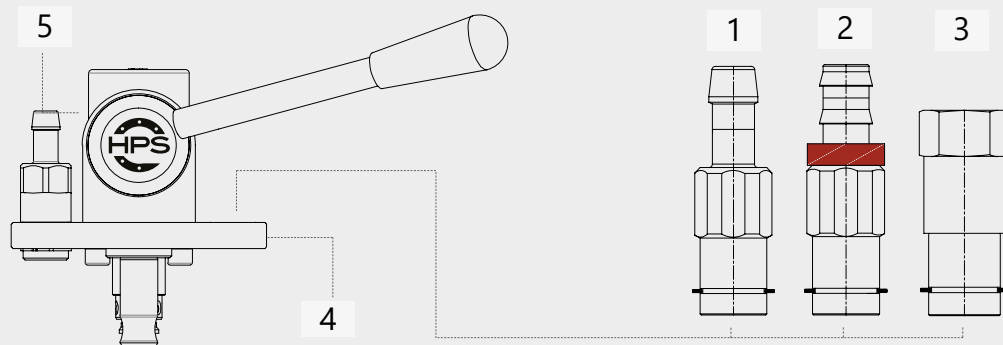
MPF 16 Clampless hose type Ø 16mm / Schnellstecktülle Ø 16mm



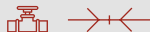
MFF 21 Female thread BSP 1/2" / Innengewinde BSP 1/2"

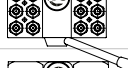
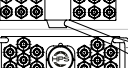
Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Equipment - Maschinenseite Bestückung



Assemblies Baugruppen

N			Description / Beschreibung
1	PS SPT.12- X FHB 12	PS SPT.12- X FHF 12	Standard hose tail Ø 12mm Standardschlauchtülle Ø 12mm
	PS SPT.12- X FHB 16	PS SPT.12- X FHF 16	Standard hose tail Ø 16mm Standardschlauchtülle Ø 16mm
2	PS SPT.12- X FPB 13	PS SPT.12- X FPF 13	Clampless hose tail Ø 13mm Schnellstecktülle Ø 13mm
	PS SPT.12- X FPB 16	PS SPT.12- X FPF 16	Clampless hose tail Ø 16mm Schnellstecktülle Ø 16mm
3	PS SPT.12- X FFB 21	PS SPT.12- X FFF 21	Female thread BSP 1/2" Innengewinde BSP 1/2"
	PS SPT.12- X FNB 21	PS SPT.12- X FNF 21	Female thread NPT 1/2" Innengewinde NPT 1/2"
	PS SPT.12-12 42 C		Collector with female thread BSP 1 1/4" Sammeler mit Innengewinde BSP 1 1/4"
	PS SPT.12-20 48 C		Collector with female thread BSP 1 1/2" Sammeler mit Innengewinde BSP 1 1/2"

Connections Anschlüsse	Schema Schema
6	
10	
12	
12	
18	
20	
20	

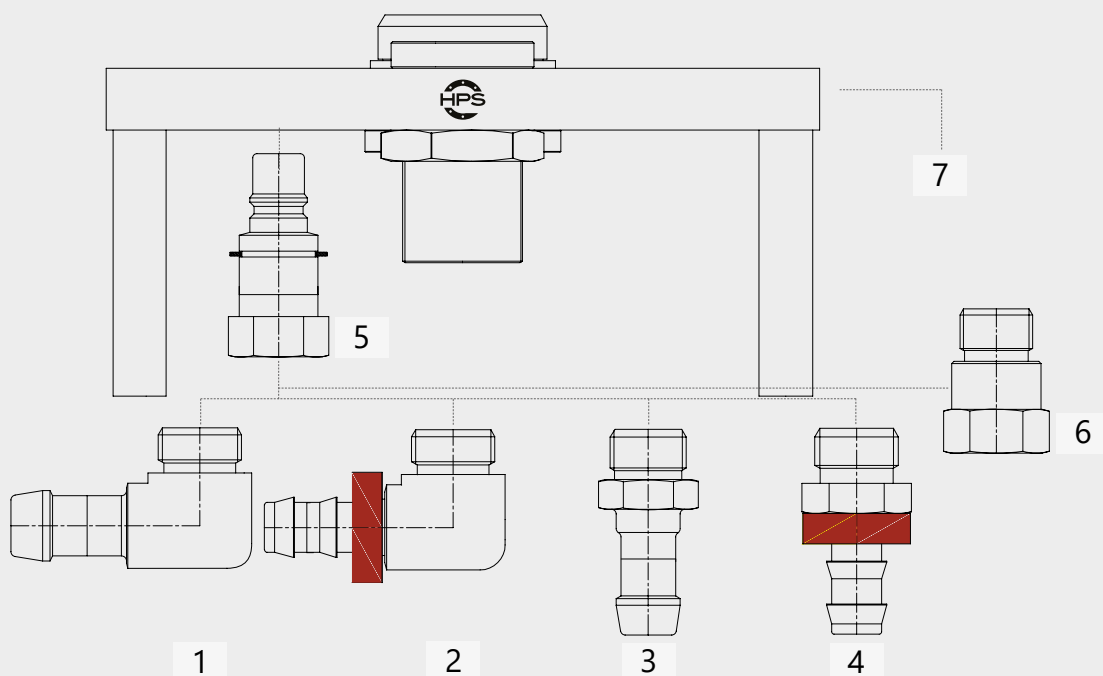
Spare parts / Einzelteile

N			Description / Beschreibung
1	M SPT.12 FHB 12	M SPT.12 FHF 12	Socket with standard hose tail Ø 12mm Kupplung mit Standardschlauchtülle Ø 12mm
	M SPT.12 FHB 16	M SPT.12 FHF 16	Socket with standard hose tail Ø 16mm Kupplung mit Standardschlauchtülle Ø 16mm
2	M SPT.12 FPB 13	M SPT.12 FPF 13	Socket with clampless hose tail Ø 13mm Kupplung mit Schnellstecktülle Ø 13mm
	M SPT.12 FPB 16	M SPT.12 FPF 16	Socket with clampless hose tail Ø 16mm Kupplung mit Schnellstecktülle Ø 16mm
3	M SPT.12 FFB 21	M SPT.12 FFF 21	Socket with female thread BSP 1/2" Kupplung mit Innengewinde BSP 1/2"
	M SPT.12 FNB 21	M SPT.12 FNF 21	Socket with female thread NPT 1/2" Kupplung mit Innengewinde NPT 1/2"

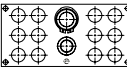
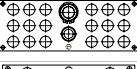
N		Description / Beschreibung
4	PS SPT.12- X	Machine side only with locking unit Maschinenseite nur mit Verriegelungseinheit
5	L-UNIT BG2	Locking unit size 2 Verriegelungseinheit Baugröße 2



Multicoupling Series SPT - Multikupplung Serie SPT Mold Side Item Equipment - Werkzeugseite Bestückung



Assemblies / Baugruppen

N			Description / Beschreibung	Connections Anschlüsse	Scheme Schema
1	MS SPT.12-X MHB 12-90 MS SPT.12-X MHB 16-90	MS SPT.12-X MHF 12-90 MS SPT.12-X MHF 16-90	Plug + 90° elbow with standard hose tail Ø 12mm Nippel + 90° Winkelstandardschlauchtülle Ø 12mm Plug + 90° elbow with standard hose tail Ø 16mm Nippel + 90° Winkelstandardschlauchtülle Ø 16mm	6	
2	MS SPT.12-X MPB 13-90 MS SPT.12-X MPB 16-90	MS SPT.12-X MPF 13-90 MS SPT.12-X MPF 16-90	Plug + 90° elbow with clamped hose tail Ø 13mm Nippel + 90° Winkelschnellstecktülle Ø 13mm Plug + 90° elbow with clamped hose tail Ø 16mm Nippel + 90° Winkelschnellstecktülle Ø 16mm	10	
3	MS SPT.12-X MHB 12 MS SPT.12-X MHB 16	MS SPT.12-X MHF 12 MS SPT.12-X MHF 16	Plug + adapter with standard hose tail Ø 12mm Nippel + Standardschlauchtülle Ø 12mm Plug + adapter with standard hose tail Ø 16mm Nippel + Standardschlauchtülle Ø 16mm	12	
4	MS SPT.12-X MPB 13 MS SPT.12-X MPB 16	MS SPT.12-X MPF 13 MS SPT.12-X MPF 16	Plug + adapter with clamped hose tail Ø 13mm Nippel + Schnellstecktülle Ø 13mm Plug + adapter with clamped hose tail Ø 16mm Nippel + Schnellstecktülle Ø 16mm	18	
5	MS SPT.12-X MFB 21 MS SPT.12-X MNB 21	MS SPT.12-X MFF 21 MS SPT.12-X MNF 21	Plug female thread BSP 1/2" Nippel mit Innengewinde BSP 1/2" Plug female thread NPT 1/2" Nippel mit Innengewinde NPT 1/2"	20	

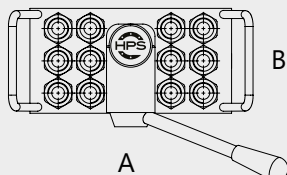
Spare parts / Einzelteile

N	Code	Description / Beschreibung
1	ELH 21/12-90 ELH 21/16-90	Male BSP 1/2" - 90° elbow with standard hose tail Ø 12mm Aussengewinde BSP 1/2" - 90° Winkelstandardschlauchtülle Ø 12mm Male BSP 1/2" - 90° elbow with standard hose tail Ø 16mm Aussengewinde BSP 1/2" - 90° Winkelstandardschlauchtülle Ø 16mm
2	ELP 21/13-90 ELP 21/16-90	Male BSP 1/2" - 90° elbow with clamped hose tail Ø 13mm Aussengewinde BSP 1/2" - 90° Winkelschnellstecktülle Ø 13mm Male BSP 1/2" - 90° elbow with clamped hose tail Ø 16mm Aussengewinde BSP 1/2" - 90° Winkelschnellstecktülle Ø 16mm
3	MHA 21/12 MHA 21/16	Male BSP 1/2" adapter with standard hose tail Ø 12mm Aussengewinde BSP 1/2" Standardschlauchtülle Ø 12mm Male BSP 1/2" adapter with standard hose tail Ø 16mm Aussengewinde BSP 1/2" Standardschlauchtülle Ø 16mm
4	MPA 21/13 MPA 21/16	Male BSP 1/2" adapter with clamped hose tail Ø 13mm Aussengewinde BSP 1/2" Schnellstecktülle Ø 13mm Male BSP 1/2" adapter with clamped hose tail Ø 16mm Aussengewinde BSP 1/2" Schnellstecktülle Ø 16mm
5	M SPT.12 MFB 21 M SPT.12 MFF 21	Plug female thread BSP 1/2" with valve Nippel Innengewinde BSP 1/2" mit Ventil Plug female thread NPT 1/2" without valve Nippel Innengewinde NPT 1/2" ohne Ventil
6	MFE 21/21-34	Male female extension BSP 1/2" Aussengewinde / Innengewinde Verlängerung BSP 1/2"
7	MS SPT.12-X	Mold side not equipped Werkzeugseite unbestückt

Multicoupling Series SPT - Multikupplung Serie SPT

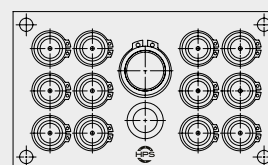
Dimensions - Abmessungen

Machine side - Maschinenseite



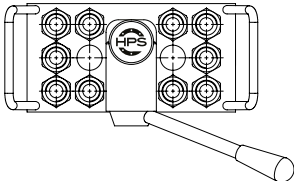
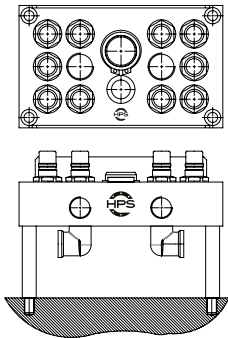
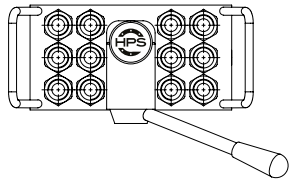
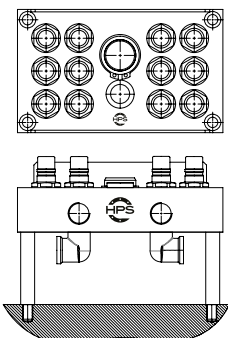
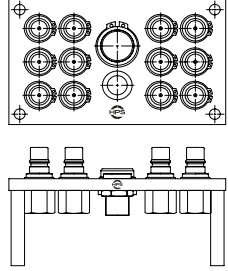
Flow Size / Nennweite 16mm

Fixed side - Werkzeugseite



C

D

Machine Side	Mold Side	A	B	C	D	n	DN
		250	130	250	150	10	16
		250	130	250	150	12	16
		250	130	250	150	12	16

Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Codes - Maschinenseite Artikelnummer



PS SPT 16 - C - X

PS Press side / Maschinenseite

SPT SPT profile / SPT Profil

16 Flow size / Nennweite

C Connections / Anschlüsse

10 5 Circuits / 5 Kreisläufe

12 6 Circuits / 6 Kreisläufe

X Socket / Kupplungseinsatz



Socket with valve / Kupplungseinsatz mit Ventil



FHB 16 Standard hose type Ø 16mm / Standardschlauchtülle Ø 16mm

FHB 19 Standard hose type Ø 19mm / Standardschlauchtülle Ø 19mm



FPB 13 Clampless hose type Ø 16mm / Schnellstecktülle Ø 16mm

FPB 16 Clampless hose type Ø 19mm / Schnellstecktülle Ø 16mm



FFB 26 Female thread BSP 3/4" / Innengewinde BSP 3/4"



Socket without valve / Kupplungseinsatz ohne Ventil



FHF 16 Standard hose type Ø 16mm / Standardschlauchtülle Ø 16mm

FHF 19 Standard hose type Ø 19mm / Standardschlauchtülle Ø 19mm



FPF 16 Clampless hose type Ø 16mm / Schnellstecktülle Ø 16mm

FPF 19 Clampless hose type Ø 19mm / Schnellstecktülle Ø 19mm



FFF 26 Female thread BSP 3/4" / Innengewinde BSP 3/4"

Multicoupling Series SPT - Multikupplung Serie SPT

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS SPT 16 C - X



Plug / Nippeleinsatz X

Connections / Anschlüsse C

10 5 Circuits / 5 Kreisläufe

12 6 Circuits / 6 Kreisläufe

Flow size / Nennweite 16

SPT profile / SPT Profil SPT

Mold side / Werkzeugseite MS



Plug with valve / Nippeleinsatz mit Ventil



MFB 26 Female thread BSP 3/4" / Innengewinde BSP 3/4"



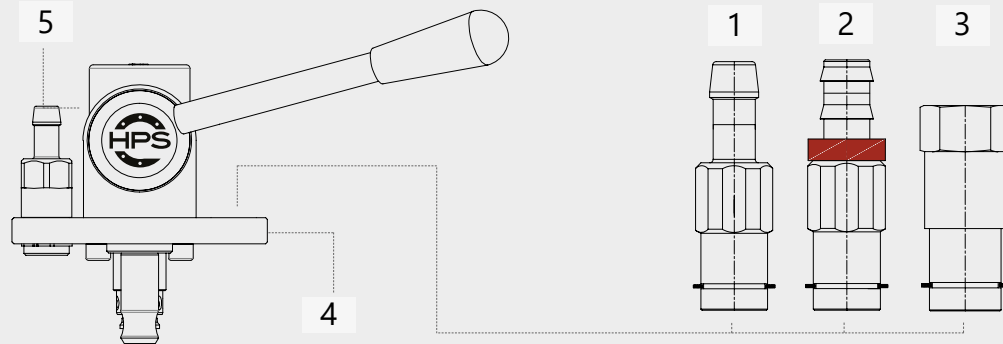
Plug without valve / Nippeleinsatz ohne Ventil



MFF 26 Female thread BSP 3/4" / Innengewinde BSP 3/4"

Multicoupling Series SPT - Multikupplung Serie SPT

Machine Side Item Equipment - Maschinenseite Bestückung



Assemblies Baugruppen

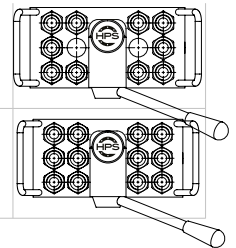
N			Description / Beschreibung
1	PS SPT.16- X FHB 16	PS SPT.16- X FHF 16	Standard hose tail Ø 16mm Standardschlauchtülle Ø 16mm
	PS SPT.16- X FHB 19	PS SPT.16- X FHF 19	Standard hose tail Ø 19mm Standardschlauchtülle Ø 19mm
2	PS SPT.16- X FPB 16	PS SPT.16- X FPF 16	Clampless hose tail Ø 16mm Schnellstecktülle Ø 16mm
	PS SPT.16- X FPB 19	PS SPT.16- X FPF 19	Clampless hose tail Ø 19mm Schnellstecktülle Ø 19mm
3	PS SPT.16- X FFB 26	PS SPT.16- X FFF 26	Female thread BSP 3/4" Innengewinde BSP 3/4"
	PS SPT.16- X FNB 26	PS SPT.16- X FNF 26	Female thread NPT 3/4" Innengewinde NPT 3/4"

Connections / Anschlüsse

Schema Schema

10

12

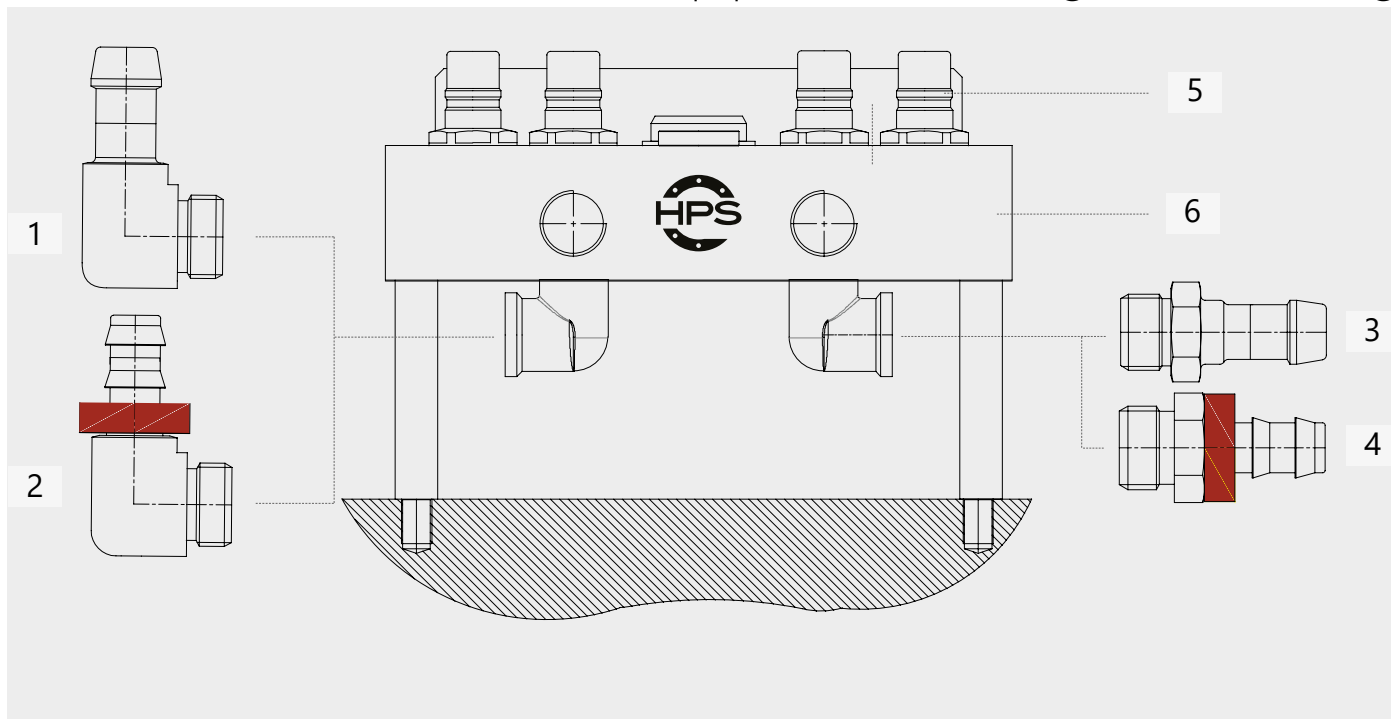


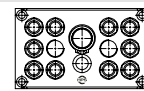
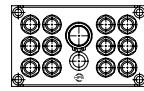
Spare parts / Einzelteile

N			Description / Beschreibung
1	M SPT.16 FHB 12	M SPT.16 FHF 16	Socket with standard hose tail Ø 16mm Kupplung mit Standardschlauchtülle Ø 16mm
	M SPT.16 FHB 16	M SPT.16 FHF 19	Socket with standard hose tail Ø 19mm Kupplung mit Standardschlauchtülle Ø 19mm
2	M SPT.16 FPB 13	M SPT.16 FPF 16	Socket with clampless hose tail Ø 16mm Kupplung mit Schnellstecktülle Ø 16mm
	M SPT.16 FPB 16	M SPT.16 FPF 19	Socket with clampless hose tail Ø 19mm Kupplung mit Schnellstecktülle Ø 19mm
3	M SPT.16 FFB 26	M SPT.16 FFF 26	Socket with female thread BSP 3/4" Kupplung mit Innengewinde BSP 3/4"
	M SPT.16 FNB 26	M SPT.16 FNF 26	Socket with female thread NPT 3/4" Kupplung mit Innengewinde NPT 3/4"

N		Description / Beschreibung
4	PS SPT.16- X	Machine side only with locking unit Maschinenseite nur mit Verriegelungseinheit
5	L-UNIT BG2	Locking unit size 2 Verriegelungseinheit Baugröße 2

Multicoupling Series SPT - Multikupplung Serie SPT Mold Side Item Equipment - Werkzeugseite Bestückung



Assemblies / Baugruppen	N			Description / Beschreibung	Connections Anschlüsse	Scheme Schema
	1	MS SPT.16-X MHB 16-90	MS SPT.16-X MHF 16-90	Plug + 90° elbow with standard hose tail Ø 16mm Nippel + 90° Winkelstandardschlauchtülle Ø 16mm	10	
		MS SPT.16-X MHB 19-90	MS SPT.16-X MHF 19-90	Plug + 90° elbow with standard hose tail Ø 19mm Nippel + 90° Winkelstandardschlauchtülle Ø 19mm		
	2	MS SPT.16-X MPB 16-90	MS SPT.16-X MPF 16-90	Plug + 90° elbow with clampless hose tail Ø 16mm Nippel + 90° Winkelschnellstecktülle Ø 16mm	12	
		MS SPT.16-X MPB 19-90	MS SPT.16-X MPF 19-90	Plug + 90° elbow with clampless hose tail Ø 19mm Nippel + 90° Winkelschnellstecktülle Ø 19mm		
	3	MS SPT.16-X MHB 16	MS SPT.16-X MHF 16	Plug + adapter with standard hose tail Ø 16mm Nippel + Standardschlauchtülle Ø 16mm	12	
		MS SPT.16-X MHB 19	MS SPT.16-X MHF 19	Plug + adapter with standard hose tail Ø 19mm Nippel + Standardschlauchtülle Ø 19mm		
	4	MS SPT.16-X MPB 16	MS SPT.16-X MPF 16	Plug + adapter with clampless hose tail Ø 16mm Nippel + Schnellstecktülle Ø 16mm		
		MS SPT.16-X MPB 19	MS SPT.16-X MPF 19	Plug + adapter with clampless hose tail Ø 19mm Nippel + Schnellstecktülle Ø 19mm		
	5	MS SPT.16-X MFB 26	MS SPT.16-X MFF 26	Plug female thread BSP 3/4" Nippel mit Innengewinde BSP 3/4"		
		MS SPT.16-X MNB 26	MS SPT.16-X MNF 26	Plug female thread NPT 3/4" Nippel mit Innengewinde NPT 3/4"		

Spare parts / Einzelteile	N	Code	Description / Beschreibung
	1	ELH 26/16-90	Male BSP 3/4" - 90° elbow with standard hose tail Ø 16mm Aussengewinde BSP 3/4" - 90° Winkelstandardschlauchtülle Ø 16mm
		ELH 26/19-90	Male BSP 3/4" - 90° elbow with standard hose tail Ø 19mm Aussengewinde BSP 3/4" - 90° Winkelstandardschlauchtülle Ø 19mm
	2	ELP 26/16-90	Male BSP 3/4" - 90° elbow with clampless hose tail Ø 16mm Aussengewinde BSP 3/4" - 90° Winkelschnellstecktülle Ø 16mm
		ELP 26/19-90	Male BSP 3/4" - 90° elbow with clampless hose tail Ø 19mm Aussengewinde BSP 3/4" - 90° Winkelschnellstecktülle Ø 19mm
	3	MHA 26/16	Male BSP 3/4" adapter with standard hose tail Ø 16mm Aussengewinde BSP 3/4" Standardschlauchtülle Ø 16mm
		MHA 26/19	Male BSP 3/4" adapter with standard hose tail Ø 19mm Aussengewinde BSP 3/4" Standardschlauchtülle Ø 19mm
	4	MPA 26/16	Male BSP 3/4" adapter with clampless hose tail Ø 16mm Aussengewinde BSP 3/4" Schnellstecktülle Ø 16mm
		MPA 26/19	Male BSP 3/4" adapter with clampless hose tail Ø 19mm Aussengewinde BSP 3/4" Schnellstecktülle Ø 19mm
	5	SPT.16 MOB 33	Plug female thread BSP 1" with valve Nippel Innengewinde BSP 1" mit Ventil
		SPT.16 MFF 33	Plug female thread NPT 1" without valve Nippel Innengewinde NPT 1" ohne Ventil
	6	MS SPT.16-X	Mold side not equipped Werkzeugseite unbestückt

PROFILE TYPES



TFF



Flow Size / Nennweiten

TFF 10 - 10 mm
TFF 12 - 12 mm



Number of Connections / Anschlüsse

TFF 10 - 6-24
TFF 12 - 6-18



Pressure / Druck

0 - 16 bar



Temperature range / Temperaturbereich

-5°C +160°C FPM (V) (Water / Wasser)
-5°C +200°C FPM (V) (Heating Oil / Wärmeträgeröl)

SPECIFICATIONS / EIGENSCHAFTEN

Tool set-up optimization through central locking
Avoidance of mistakes through fixed hoses on the plates
Many connection options
The connectors are compatible with the monocouplings of the series (TFF)

Rüstzeitoptimierung durch zentrale Verriegelung
Fehlervermeidung durch feste Anordnung der Schläuche auf den Platten
Viele Anschlussmöglichkeiten
Die Anschlüsse sind kompatibel mit den monokupplungen der Serien

OPTIONS / OPTIONEN

Color coding on the plates
Stainless Steel option for plates, connectors and locking unit
High temperature option for connectors
Safety locking unit

Farbkodierung der Platten
Edelstahloption für Platten, Anschlüsse und Verriegelungseinheit
Hochtemperaturoption für die Anschlüsse
Sicherheitsopstion für dier Verriegelungseinheit

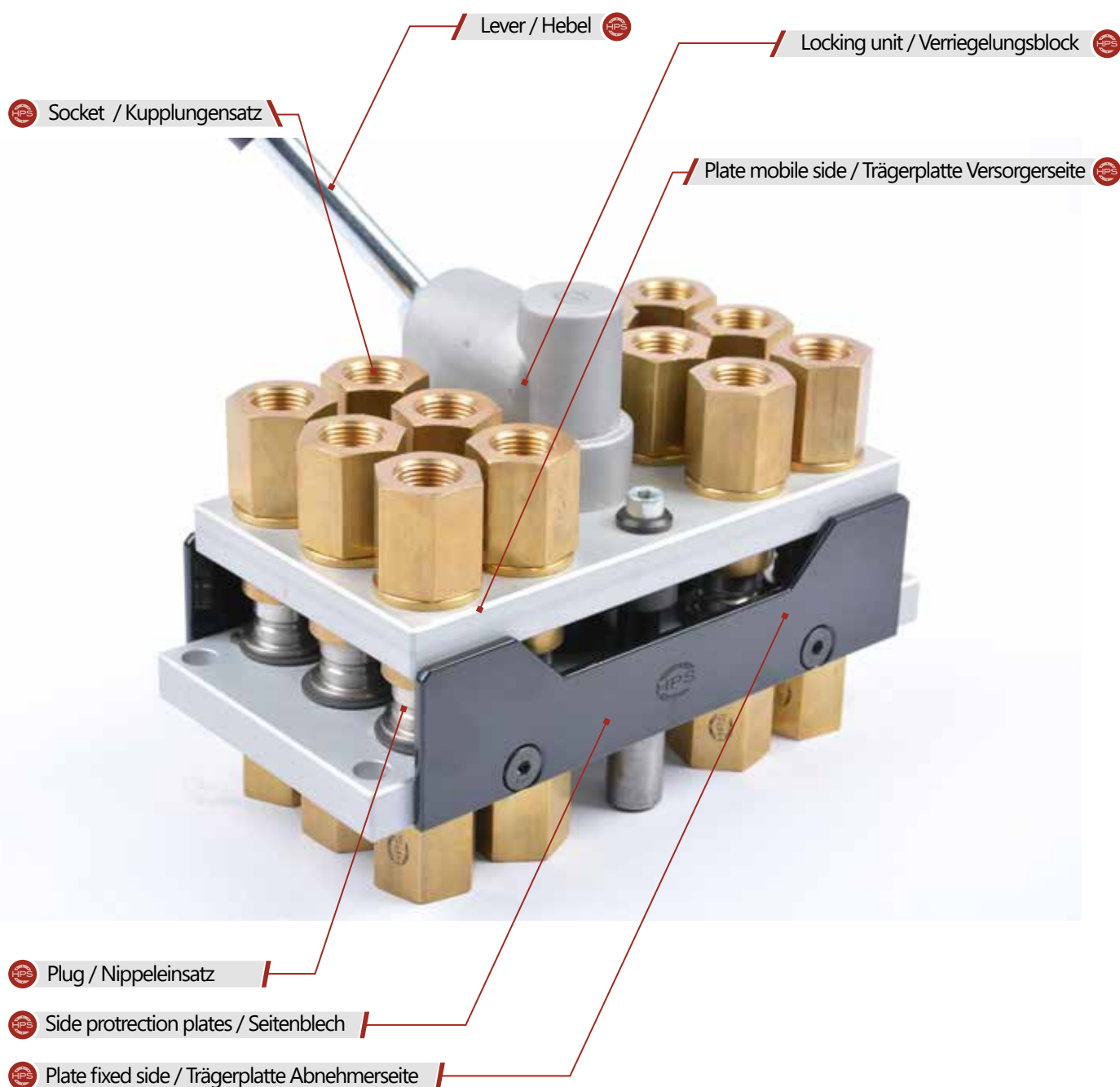
USING AREAS / EINSATZBEREICHE

On thermo regulation
Injection moulding industries
Die casting
Test benches

Temperierung
Kunststoffindustrie
Alu Druckguss
Prüfstände

INTERNAL USE

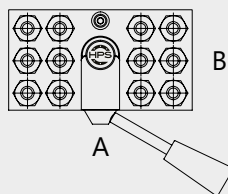
MULTICOUPLINGS FOR FLUIDS / SERIES TFF



Multicoupling Series TFF - Multikupplung Serie TFF

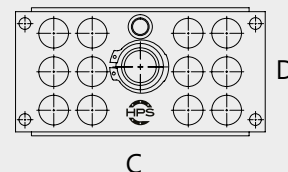
Dimensions - Abmessungen

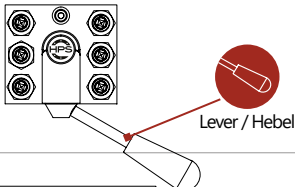
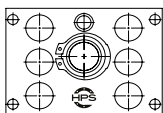
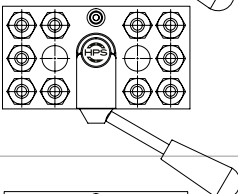
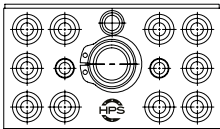
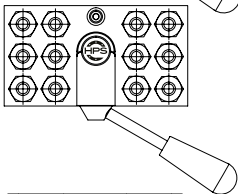
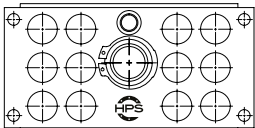
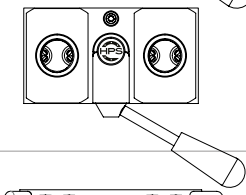
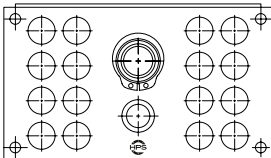
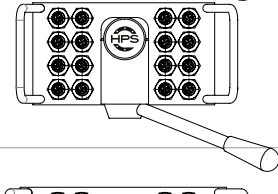
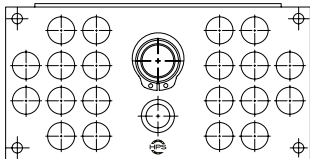
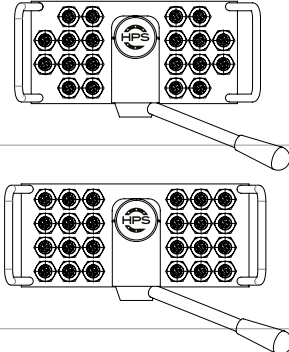
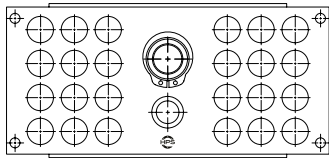
Machine side - Maschinenseite



Flow Size / Nennweite 10mm

Fixed side - Werkzeugseite



Machine Side	Mold Side	A	B	C	D	n	DN
		105	93	132	95	6	10
		170	104	172	94	10	10
		170	104	195	94	12	10
		230	129	230	130	16	10
		260	129	260	130	20	10
		265	129	285	230	24	10

Multicoupling Series TFF - Multikupplung Serie TFF

Machine Side Item Codes - Maschinenseite Artikelnummer



PS TFF 10 - C - X

PS Press side / Maschinenseite

TFF TFF profile / TFF Profil

10 Flow size / Nennweite

C Connections / Anschlüsse

6 3 Circuits / 3 Kreisläufe

10 5 Circuits / 5 Kreisläufe

12 6 Circuits / 6 Kreisläufe

16 8 Circuits / 8 Kreisläufe

20 10 Circuits / 10 Kreisläufe

24 12 Circuits / 12 Kreisläufe

X Socket / Kupplungseinsatz



Socket with valve / Kupplungseinsatz mit Ventil



FHB 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

FHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



FPB 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

FPB 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



FFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"



Socket without valve / Kupplungseinsatz ohne Ventil



FHF 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

FHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



FPF 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

FPF 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



FFF 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

Multicoupling Series TFF - Multikupplung Serie TFF

Mold Side Item Codes - Werkzeugseite Artikelnummer

MS TFF 10 C - X - Y



Elbow / Winkel **Y**

Plug / Nippeleinsatz **X**

Connections / Anschlüsse **C**

6	3 Circuits / 3 Kreisläufe
10	5 Circuits / 5 Kreisläufe
12	6 Circuits / 6 Kreisläufe
16	8 Circuits / 8 Kreisläufe
20	10 Circuits / 10 Kreisläufe
24	12 Circuits / 12 Kreisläufe

Flow size / Nennweite **10**

TFF profile / TFF Profil **TFF**

Mold side / Werkzeugseite **MS**



Plug with valve / Nippeleinsatz mit Ventil



MHB 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

MHB 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



MPB 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

MPB 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



MFB 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"



Plug without valve / Nippeleinsatz ohne Ventil



MHF 10 Standard hose type Ø 10mm / Standardschlauchtülle Ø 10mm

MHF 12 Standard hose type Ø 12mm / Standardschlauchtülle Ø 12mm



MPF 10 Clampless hose type Ø 10mm / Schnellstecktülle Ø 10mm

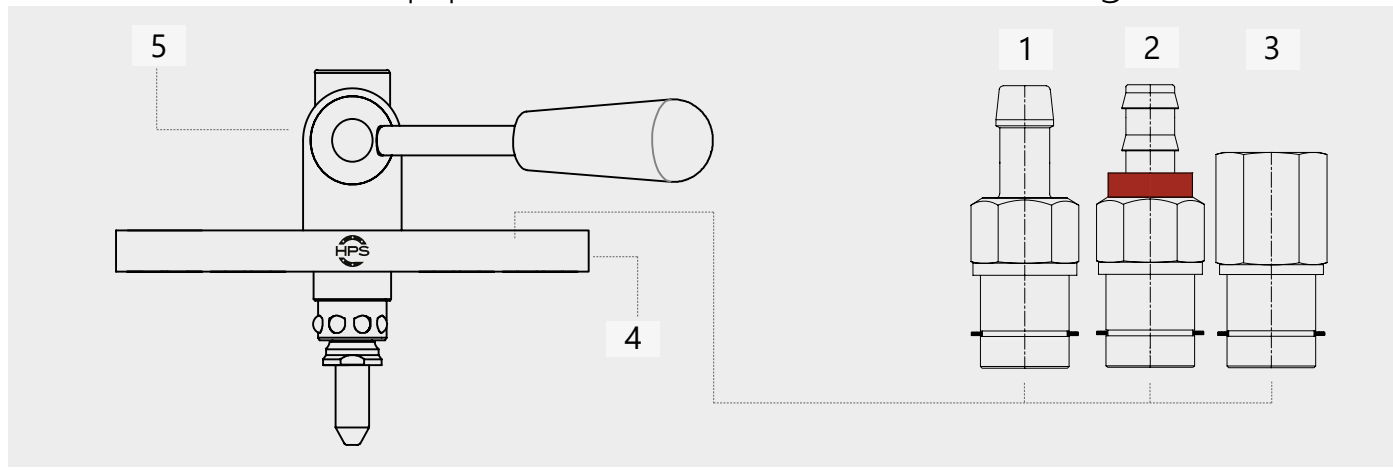
MPF 13 Clampless hose type Ø 12mm / Schnellstecktülle Ø 12mm



MFF 17 Female thread BSP 3/8" / Innengewinde BSP 3/8"

Multicoupling Series TFF - Multikupplung Serie TFF

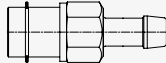
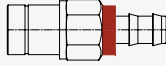
Machine Side Item Equipment - Maschinenseite Bestückung



Assemblies Baugruppen	N				Description / Beschreibung
	1	PS TFF.10- X FHB 10	PS TFF.10- X FHB 12	PS TFF.10- X FHF 10	Standard hose tail Ø 10mm Standardschlauchtülle Ø 10mm
		PS TFF.10- X FHB 12	PS TFF.10- X FHB 12	PS TFF.10- X FHF 12	Standard hose tail Ø 12mm Standardschlauchtülle Ø 12mm
	2	PS TFF.10- X FPB 10	PS TFF.10- X FPB 13	PS TFF.10- X FPF 10	Clampless hose tail Ø 10mm Schnellstecktülle Ø 10mm
		PS TFF.10- X FPB 13	PS TFF.10- X FPB 13	PS TFF.10- X FPF 13	Clampless hose tail Ø 13mm Schnellstecktülle Ø 13mm
	3	PS TFF.10- X FFB 17	PS TFF.10- X FFB 17	PS TFF.10- X FFF 17	Female thread BSP 3/8" Innengewinde BSP 3/8"
		PS TFF.10- X FNB 17	PS TFF.10- X FNB 17	PS TFF.10- X FNF 17	Female thread NPT 3/8" Innengewinde NPT 3/8"

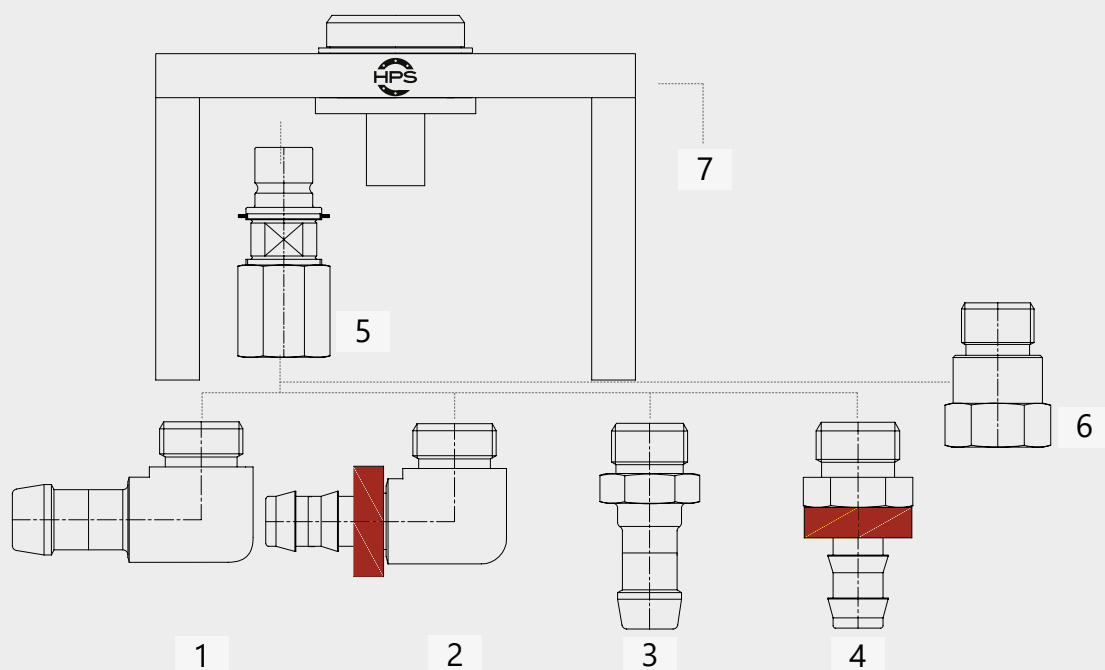
Connections Anschlüsse	Schema Schema
6	
10	
12	
12C	
16	
20	
24	

Spare parts / Einzelteile

N			Description / Beschreibung	
1	M TFF.10 FHB 10	M TFF.10 FHB 12	Socket with standard hose tail Ø 10mm Kupplung mit Standardschlauchtülle Ø 10mm	
	M TFF.10 FHB 12	M TFF.10 FHB 12	Socket with standard hose tail Ø 12mm Kupplung mit Standardschlauchtülle Ø 12mm	
2	M TFF.10 FPB 10	M TFF.10 FPF 10	Socket with clampless hose tail Ø 10mm Kupplung mit Schnellstecktülle Ø 10mm	
	M TFF.10 FPB 13	M TFF.10 FPF 13	Socket with clampless hose tail Ø 13mm Kupplung mit Schnellstecktülle Ø 13mm	
3	M TFF.10 FFB 17	M TFF.10 FFF 17	Socket with female thread BSP 3/8" Kupplung mit Innengewinde BSP 3/8"	
	M TFF.10 FNB 17	M TFF.10 FNF 17	Socket with female thread NPT 3/8" Kupplung mit Innengewinde NPT 3/8"	

N		Description / Beschreibung	
4	PS TFF.10- X	Machine side only with locking unit Maschinenseite nur mit Verriegelungseinheit	
5	L-UNIT BG3	Locking unit size 3 (Connections 6/10/12) Verriegelungseinheit Baugröße 3 (Anschlüsse 6/10/12)	
	L-UNIT BG4	Locking unit size 4 (Connections 16/20/24) Verriegelungseinheit Baugröße 4 (Anschlüsse 16/20/24)	

Multicoupling Series TFF - Multikupplung Serie TFF Mold Side Item Equipment - Werkzeugseite Bestückung



Assemblies / Baugruppen

N			Description / Beschreibung	Connections Anschlüsse	Scheme Schema
1	MS TFF.10-X MHB 10-90 MS TFF.10-X MHB 12-90	MS TFF.10-X MHF 10-90 MS TFF.10-X MHF 12-90	Plug + 90° elbow with standard hose tail Ø 10mm Nippel + 90° Winkelstandardschlauchtülle Ø 10mm Plug + 90° elbow with standard hose tail Ø 12mm Nippel + 90° Winkelstandardschlauchtülle Ø 12mm	6	
2	MS TFF.10-X MPB 10-90 MS TFF.10-X MPB 13-90	MS TFF.10-X MPF 10-90 MS TFF.10-X MPF 13-90	Plug + 90° elbow with clamped hose tail Ø 10mm Nippel + 90° Winkelschnellstecktülle Ø 10mm Plug + 90° elbow with clamped hose tail Ø 13mm Nippel + 90° Winkelschnellstecktülle Ø 13mm	10	
3	MS TFF.10-X MHB 10 MS TFF.10-X MHB 12	MS TFF.09-X MHF 10 MS TFF.10-X MHF 12	Plug + adapter with standard hose tail Ø 10mm Nippel + Standardschlauchtülle Ø 10mm Plug + adapter with standard hose tail Ø 12mm Nippel + Standardschlauchtülle Ø 12mm	12	
4	MS TFF.10-X MPB 10 MS TFF.10-X MPB 13	MS TFF.10-X MPF 10 MS TFF.10-X MPF 13	Plug + adapter with clamped hose tail Ø 10mm Nippel + Schnellstecktülle Ø 10mm Plug + adapter with clamped hose tail Ø 13mm Nippel + Schnellstecktülle Ø 13mm	16	
5	MS TFF.10-X MFB 17 MS TFF.10-X MNB 17	MS TFF.10-X MFF 17 MS TFF.10-X MNF 17	Plug female thread BSP 3/8" Nippel mit Innengewinde BSP 3/8" Plug female thread NPT 3/8" Nippel mit Innengewinde NPT 3/8"	20	
				24	

Spare parts / Einzelteile

N	Code	Description / Beschreibung
1	ELH 17/10-90 ELH 17/12-90	Male BSP 3/8" - 90° elbow with standard hose tail Ø 10mm Aussengewinde BSP 3/8" - 90° Winkelstandardschlauchtülle Ø 10mm Male BSP 3/8" - 90° elbow with standard hose tail Ø 12mm Aussengewinde BSP 3/8" - 90° Winkelstandardschlauchtülle Ø 12mm
2	ELP 17/10-90 ELP 17/13-90	Male BSP 3/8" - 90° elbow with clamped hose tail Ø 10mm Aussengewinde BSP 3/8" - 90° Winkelschnellstecktülle Ø 10mm Male BSP 3/8" - 90° elbow with clamped hose tail Ø 13mm Aussengewinde BSP 3/8" - 90° Winkelschnellstecktülle Ø 13mm
3	MHA 17/10 MHA 17/12	Male BSP 3/8" adapter with standard hose tail Ø 10mm Aussengewinde BSP 3/8" Standardschlauchtülle Ø 10mm Male BSP 3/8" adapter with standard hose tail Ø 12mm Aussengewinde BSP 3/8" Standardschlauchtülle Ø 12mm
4	MPA 17/10 MPA 17/13	Male BSP 3/8" adapter with clamped hose tail Ø 10mm Aussengewinde BSP 3/8" Schnellstecktülle Ø 10mm Male BSP 3/8" adapter with clamped hose tail Ø 13mm Aussengewinde BSP 3/8" Schnellstecktülle Ø 13mm
5	M TFF.10 MFB 17 M TFF.10 MFF 17	Plug female thread BSP 3/8" with valve Nippel Innengewinde BSP 3/8" mit Ventil Plug female thread NPT 3/8" without valve Nippel Innengewinde NPT 3/8" ohne Ventil
6	MFE 17/17-20	Male female extension BSP 3/8" Aussengewinde / Innengewinde Verlängerung BSP 3/8"
7	MS TFF.10-X	Mold side not equipped Werkzeugseite unbestückt

ONLY FOR INT

INTERNAL USE

SERIES HPAC

STANDARD CITO



HPAC

 mm	Inlet / Einlass	n	Number of exits / Menge der Auslässe
	3/4" 1" 1 1/4" 1 1/2" 2"		2 - 8
 max.	Pressure / Druck	 max.	Temperature range / Temperaturbereich
	0 - 30 bar		-50°C +200°C

Includes end caps, mounting screws are not included - Inklusive Endstopfen, Montageschrauben sind nicht enthalten

The anodized aluminum is not suitable for corrosive liquids (high chlorine content)
Das eloxierte Aluminium ist für korrosive Flüssigkeiten (hoher Chlorgehalt) nicht geeignet

OPTIONS / OPTIONEN

Colors and design according to customer requirements
Anorized

Farben und Auslegung nach Kundenwunsch
Eloxiert

USING AREAS / EINSATZBEREICHE

Injection moulding industries
Die casting

Kunststoffindustrie
Alu Druckguss



With separator divided in the middle
Mit Trennsteg in der Mitte

Option R/B

ITEM CODE / ARTIKELNUMMER

HPAC T1 I - T2 O - S - N - C

HPAC Aluminium Collector / Alu Verteiler

T1 Thread type inlet / Gewindetyp Einlass

I Thread Inlet / Einlassgewinde

T2 Thread type outlet / Gewindetyp Auslass

O Thread outlet / Auslassgewinde

S Scheme / Schema

N Number exits /Anzahl Ausgänge

C Color / Farbe

Thread type
Gewindetyp

T1/ T2	Thread type Gewindetyp
G	BSP
N	NPT

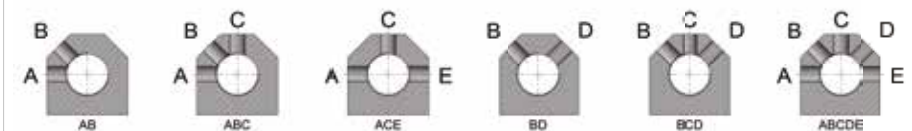
Inlet
Einlass

I	Thread size Gewindegröße
26	3/4"
33	1"
42	1 1/4"
48	1 1/2"
60	2"

Outlet
Auslass

O	Thread size Gewindegröße
13	1/4"
17	3/8"
21	1/2"
26	3/4"

Scheme
Schema



Color
Farbe

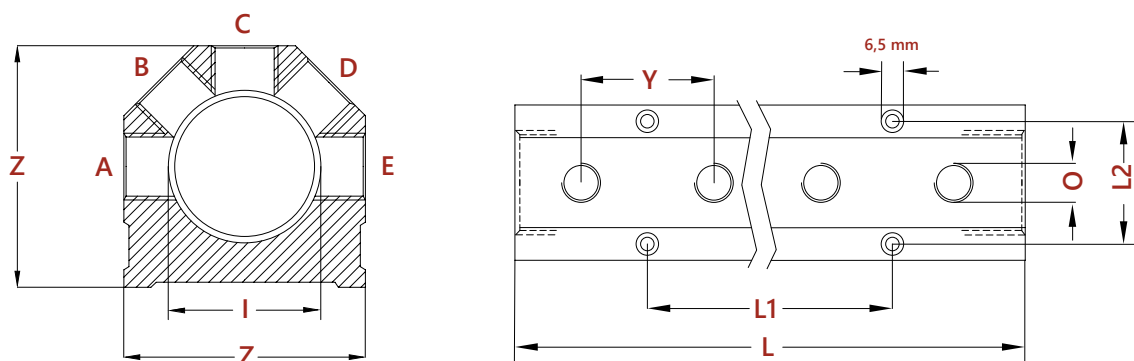
C	Color Farbe
R	Red / Rot
B	Blue / Blau
R/B	Red-Blue/ Rot-Blau
N	Anorized / Eloxiert

EXAMPLE CODE / BEISPIEL ARTIKELNUMMER

HPAC G33-G14-BCD-6 -R



DIMENSIONS / ABMESSUNGEN



I INLET	O OUTLET	N EXITS ON ONE SURFACE	L LENGHT	L1 DISTANCE BETWEEN MOUNTING HOLES	L2 DISTANCE BETWEEN MOUNTING HOLES	Y DISTANCE BETWEEN EXITS	Z HEIGHT
3/4"	1/4" 3/8" only A AC ACE BD	2 4 6 8	70 120 172 222	35 50,8 101,6 152,4	35	25,4	44,5
1"	1/4" 3/8" only A AC ACE BD	2 4 6 8	95 159 222 286	47,5 63,5 127 190,5	38,1	31,75	50,8
1 1/4"	1/4" 3/8" 1/2"	2 4 6 8	152 254 355 457	76 101,6 203,2 304,8	47,6	50,8	63,5
1 1/2"	1/4" 3/8" 1/2"	2 4 6 8	152 254 355 457	76 101,6 203,2 304,8	57,2	50,8	76,2
2"	3/8" 1/2" 3/4"	2 4 6 8	203 305 432 559	101,5 127 254 381	72,4	57,15	89,0



SERIES HPBC

STANDARD BRASS COLLECTORS



HPBC



Inlet / Einlass

3/4"
1"
1 1/4"
1 1/2"
2"

Number of exits / Menge der Auslässe

3 - 20



Pressure / Druck

0 - 16 bar



Temperature range / Temperaturbereich

5°C +110°C

End caps and mounting screws are not included - Endstopfen und Montageschrauben sind nicht enthalten

OPTIONS / OPTIONEN

Colors and design according to customer requirements

Farben und Auslegung nach Kundenwunsch

USING AREAS / EINSATZBEREICHE

Injection moulding industries
Die castingKunststoffindustrie
Alu Druckguss

Collector carrier plate - Trägerplatte für Verteiler

HPBC 26/33
HPBC 42/48/60HPBC CP-70
HPBC CP-150

ITEM CODE / ARTIKELNUMMER

HPBC T1 I - T2 O - N - C - L

HPBC Brass Collector / Messing Verteiler

T1 Thread type inlet / Gewindetyp Einlass

I Thread Inlet / Einlassgewinde

T2 Thread type outlet / Gewindetyp Auslass

O Thread outlet / Auslassgewinde

N Number exits / Anzahl Ausgänge

C Color / Farbe

L Total length / Gesamtlänge

Thread type Gewindetyp	T1/T2	Thread type Gewindetyp
	G	BSP
	N	NPT

Inlet Einlass	I	Thread size Gewindegröße
	26	3/4"
	33	1"
	42	1 1/4"
	48	1 1/2"
	60	2"

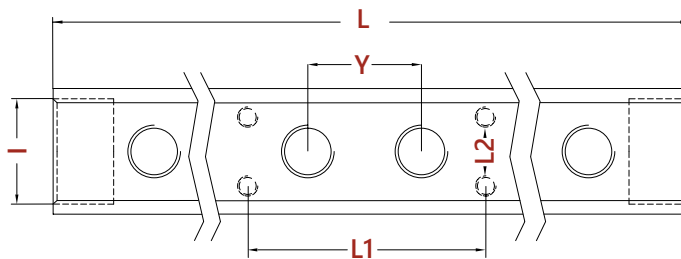
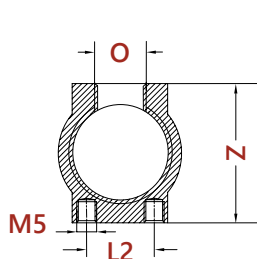
Outless Auslass	O	Thread size Gewindegröße
	13	1/4"
	17	3/8"
	21	1/2"
	26	3/4"
	33	1"

Color Farbe	C	Color Farbe
	R	Red / Rot
	B	Blue / Blau

EXAMPLE CODE / BEISPIEL ARTIKELNUMMER

HPAC G42-G17-8-R-356

DIMENSIONS / ABMESSUNGEN



I INLET	O OUTLET	ITEM CODES	N EXITS	L LENGHT	L1 DISTANCE BETWEEN MOUNTING HOLES	L2 DISTANCE BETWEEN MOUNTING HOLES	Y DISTANCE BETWEEN EXITS	Z HEIGHT
3/4"	1/4"	HPBC.G26.G13.3.120 HPBC.G26.G13.4.150 HPBC.G26.G13.5.180 HPBC.G26.G13.6.210 HPBC.G26.G13.7.240 HPBC.G26.G13.8.270 HPBC.G26.G13.9.300 HPBC.G26.G13.10.330 HPBC.G26.G13.11.360 HPBC.G26.G13.12.390	3 4 5 6 7 8 9 10 11 12	120 150 180 210 240 270 300 330 360 390	70	17	30	35
	3/8"	HPBC.G26.G17.4.165 HPBC.G26.G17.5.200 HPBC.G26.G17.6.235 HPBC.G26.G17.7.270 HPBC.G26.G17.8.305 HPBC.G26.G17.9.340 HPBC.G26.G17.10.375 HPBC.G26.G17.11.410 HPBC.G26.G17.12.445	4 5 6 7 8 9 10 11 12	165 200 235 270 305 340 375 410 445			35	35
1"	1/4"	HPBC.G33.G13.4.165 HPBC.G33.G13.5.200 HPBC.G33.G13.6.235 HPBC.G33.G13.7.270 HPBC.G33.G13.8.305 HPBC.G33.G13.9.340 HPBC.G33.G13.10.375 HPBC.G33.G13.11.410 HPBC.G33.G13.12.445	4 5 6 7 8 9 10 11 12	165 200 235 270 305 340 375 410 445	70	17	35	xx
	3/8"	HPBC.G33.G17.4.165 HPBC.G33.G17.5.200 HPBC.G33.G17.6.235 HPBC.G33.G17.7.270 HPBC.G33.G17.8.305 HPBC.G33.G17.9.340 HPBC.G33.G17.10.375 HPBC.G33.G17.11.410 HPBC.G33.G17.12.445	4 5 6 7 8 9 10 11 12	165 200 235 270 305 340 375 410 445			35	xx
	1/2"	HPBC.G33.G21.4.210 HPBC.G33.G21.5.260 HPBC.G33.G21.6.310 HPBC.G33.G21.7.360 HPBC.G33.G21.8.410 HPBC.G33.G21.9.460 HPBC.G33.G21.10.510 HPBC.G33.G21.11.560 HPBC.G33.G21.12.610 HPBC.G33.G21.16.810 HPBC.G33.G21.20.1110	4 5 6 7 8 9 10 11 12 16 20	210 260 310 360 410 460 510 560 610 810 1110			50	xx



Not painted brass collectors
Unlackierte Messing Verteiler

I INLET	O OUTLET	ITEM CODES	N EXITS	L LENGHT	L1 DISTANCE BETWEEN MOUNTING HOLES	L2 DISTANCE BETWEEN MOUNTING HOLES	Y DISTANCE BETWEEN EXITS	Z HEIGHT
1 1/4"	3/8"	HPBC.G42.G17.4.196 HPBC.G42.G17.5.236 HPBC.G42.G17.6.276 HPBC.G42.G17.7.316 HPBC.G42.G17.8.356 HPBC.G42.G17.9.396 HPBC.G42.G17.10.436 HPBC.G42.G17.11.476 HPBC.G42.G17.12.516 HPBC.G42.G17.16.676	4 5 6 7 8 9 10 11 12 16	196 236 276 316 356 396 436 476 516 676	150	20	40	
	1/2"	HPBC.G42.G21.4.226 HPBC.G42.G21.5.276 HPBC.G42.G21.6.326 HPBC.G42.G21.7.376 HPBC.G42.G21.8.426 HPBC.G42.G21.9.476 HPBC.G42.G21.10.526 HPBC.G42.G21.11.576 HPBC.G42.G21.12.626 HPBC.G42.G21.12.826	4 5 6 7 8 9 10 11 12 16	226 276 326 376 426 476 526 576 626 826			50	xx
1 1/2"	3/8"	HPBC.G48.G38.4.196 HPBC.G48.G38.5.236 HPBC.G48.G38.6.276 HPBC.G48.G38.7.316 HPBC.G48.G38.8.346 HPBC.G48.G38.9.396 HPBC.G48.G38.10.436 HPBC.G48.G38.11.476 HPBC.G48.G38.12.516 HPBC.G48.G38.16.516	4 5 6 7 8 9 10 11 12 16	196 236 276 316 356 396 436 476 516 676	150	20	40	xx
	1/2"	HPBC.G48.G17.4.165 HPBC.G48.G17.5.200 HPBC.G48.G17.6.235 HPBC.G48.G17.7.270 HPBC.G48.G17.8.305 HPBC.G48.G17.9.340 HPBC.G48.G17.10.375 HPBC.G48.G17.11.410 HPBC.G48.G17.12.445 HPBC.G48.G17.16.445	4 5 6 7 8 9 10 11 12 16	165 200 235 270 305 340 375 410 445			50	xx
2"	1"	HPBC.G60.G33.3.274 HPBC.G60.G33.4.374 HPBC.G60.G33.5.474 HPBC.G60.G33.6.574	3 4 5 6	274 374 474 574	150	20	100	xx

**SERIES HPCC**

STAINLESS STEEL

**HPCC**

Inlet / Einlass

1"
1 1/4"
1 1/2"
2"

Number of exits / Menge der Auslässe

2 - 8



Pressure / Druck

0 - 20 bar



Temperature range / Temperaturbereich

-50°C +200°C

End caps and mounting screws are not included - Endstopfen und Montageschrauben sind nicht enthalten

OPTIONS / OPTIONEN

Design according to customer requirements

Auslegung nach Kundenwunsch

USING AREAS / EINSATZBEREICHEInjection moulding industries
Die castingKunststoffindustrie
Alu Druckguss

ITEM CODE / ARTIKELNUMMER

HPCC T1 I - T2 O - S - N - T

HPCC Stainless steel Collector / Edelstahl Verteiler

T1 Thread type inlet / Gewindetyp Einlass

I Thread Inlet / Einlassgewinde

T2 Thread type outlet / Gewindetyp Auslass

O Thread outlet / Auslassgewinde

S Scheme / Schema

N Number exits / Anzahl Ausgänge

T Type / Typ

Thread type
Gewindetyp

T1/T2	Thread type Gewindetyp
G	BSP
N	NPT

Inlet
Einlass

I	Thread size Gewindegröße
33	1"
42	1 1/4"
48	1 1/2"
60	2"

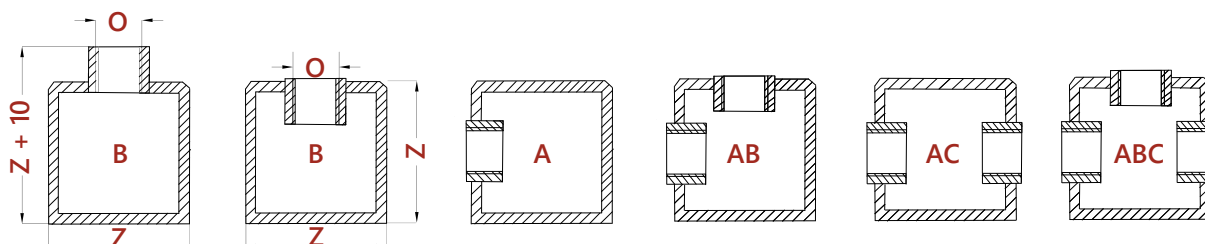
Outless
Auslass

O	Thread size Gewindegröße
13	1/4"
17	3/8"
21	1/2"
26	3/4"
33	1"

Type
Typ

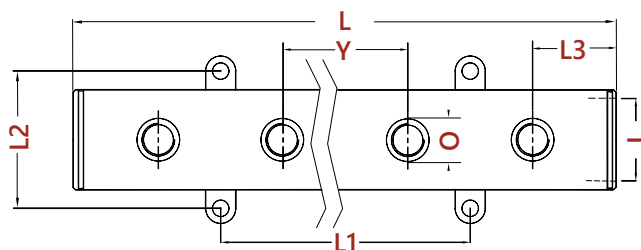
T	Type
HE	High exit
LE	Low exit

Scheme
Schema



EXAMPLE CODE / BEISPIEL ARTIKELNUMMER

HPCC G42-G17-AB-6 -HE



I INLET	O OUTLET	ITEM CODES	N EXITS	L LENGHT	L1 DISTANCE BETWEEN MOUNTING HOLES	L2 DISTANCE BETWEEN MOUNTING HOLES	L3	Y DISTANCE BETWEEN EXITS	Z HEIGHT
1"	1/4"	HPCC.G33.G13.S.2.T HPCC.G33.G13.S.4.T HPCC.G33.G13.S.6.T HPCC.G33.G13.S.8.T	2 4 6 8	130 210 290 370	0 100 200 300	55	45	40	40
	3/8"	HPCC.G33.G17.S.2.T HPCC.G33.G17.S.4.T HPCC.G33.G17.S.6.T HPCC.G33.G17.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300				
1 1/4"	1/4"	HPCC.G42.G13.S.2.T HPCC.G42.G13.S.4.T HPCC.G42.G13.S.6.T HPCC.G42.G13.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300	65		50	50
	3/8"	HPCC.G42.G17.S.2.T HPCC.G42.G17.S.4.T HPCC.G42.G17.S.6.T HPCC.G42.G17.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300				
	1/2"	HPCC.G42.G21.S.2.T HPCC.G42.G21.S.4.T HPCC.G42.G21.S.6.T HPCC.G42.G21.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300				
1 1/2"	1/4"	HPCC.G48.G13.S.2.T HPCC.G48.G13.S.4.T HPCC.G48.G13.S.6.T HPCC.G48.G13.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300	65		50	50
	3/8"	HPCC.G48.G17.S.2.T HPCC.G48.G17.S.4.T HPCC.G48.G17.S.6.T HPCC.G48.G17.S.8.T	2 4 6 8	140 240 340 440	10 100 200 300				
	1/2"	HPCC.G48.G21.S.2.T HPCC.G48.G21.S.4.T HPCC.G48.G21.S.6.T HPCC.G48.G21.S.8.T	2 4 6 8	140 240 340 440	0 100 200 300				
2"	3/8"	HPCC.G60.G17.S.2.T HPCC.G60.G17.S.4.T HPCC.G60.G17.S.6.T HPCC.G60.G17.S.8.T	2 4 6 8	150 270 390 510	0 100 200 300	95		60	80
	1/2"	HPCC.G60.G21.S.2.T HPCC.G60.G21.S.4.T HPCC.G60.G21.S.6.T HPCC.G60.G21.S.8.T	2 4 6 8	150 270 390 510	0 100 200 300				
	3/4"	HPCC.G60.G26.S.2.T HPCC.G60.G26.S.4.T HPCC.G60.G26.S.6.T HPCC.G60.G26.S.8.T	2 4 6 8	150 270 390 510	0 100 200 300				

S = A / B / C / AB / AC / BC / ABC
T = HE / LE

ONLY FOR INT

INTERNAL USE



95°C

Water / Air Hose MNG-E95S

Speifications

Rubber Tube	Synthetic rubber
Reinforcement	High strength synthetic textile yarn
Cover	Smooth synthetic rubber – Abrasion and tough use resistant
Application	Specially designed hose for compressed water or air transfer for different industrial purposes
Temperature	-25°C to +95°C
Colors	Red Blue Black
Roll lenght	50 m



Description	Ø Inside		Ø Outside mm	Working pressure (at 20°C)		Burst pressure (at 20°C)		Weight g/m
	Zoll	mm		bar	PSI	bar	PSI	
MNG-E95S-10	3/8"	9,5	17	20	300	60	900	230
MNG-E95S-12	1/2"	13	21	20	300	60	900	320

Wasser / und Pneumatik-Schlauch-E95S

Spezifikationen

Elastomer Seele	Synthetischer Gummi
Druckträger	Hochzugfeste Einlage aus synthetischem Textilgeflecht
Elastomer Decke	Weicher synthetischer Gummi – Strapazierfähig und abriebresistent
Empfohlene Medien	Speziell entwickelter Schlauch für Wasser-/Pneumatikanwendungen zu verschiedenen industriellen Zwecken
Umgebungstemperatur	-25°C bis +95°C
Farben	Rot Blau Schwarz
Rollenlänge	50 m



Bezeichnung	Innendurchmesser		Aussendurchmesser	Betriebsdruck (bei 20°C)		Berstdruck (bei 20°C)		Gewicht
	Zoll	mm		bar	PSI	bar	PSI	
MNG-E95S-10	3/8"	9,5	17	20	300	60	900	230
MNG-E95S-12	1/2"	13	21	20	300	60	900	320



90°C

Clampless Hose MNG-P90S

Specifikations

Rubber Tube	synthetic rubber
Reinforcement	high tensile textile braid
Cover	oil-, abrasion, ozone and weather resistant smooth cover
Application	For hydraulic control lines, discharge under pressure of hydraulic fluids, fuel, grease, air and water
Temperature	-40°C to +100°C
Medium Temperature	Air: 70°C Water : 90°C
Colors	Red Blue Black
Roll lenght	30 m



The clampless-connect system enables time-saving assembly without an additional clamp.

Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

Description	Ø Inside		Working pressure (at 20°C)		Burst pressure (at 20°C)		Bending radius mm	Weight g/m
	Zoll	mm	bar	PSI	bar	PSI		
MNG-P90S-10	3/8"	9,5	24	348	72	1044	80	145
MNG-P90S-12	1/2"	12,7	21	305	63	914	100	220
MNG-P90S-16	5/8"	15,9	21	305	63	914	125	250
MNG-P90S-19	3/4"	19	21	305	63	914	150	310

Steckschlauch MNG-P90S

Spezifikationen

Elastomer Seele	Synthetischer Gummi
Druckträger	Eine hochzugfeste Textilgeflecht-Einlage
Elastomer Decke	Öl-, Abrieb, Ozon- und Witterungsbeständige glatte Außendecke
Empfohlene Medien	Hydraulikflüssigkeiten auf Mineralölbasis, Schmieröle, Kühlmittel, Frostschutzmittel, Luft, Wasser und Wasser-Öl-Emulsionen
Umgebungstemperatur	-40°C bis +100°C
Medientemperatur	Luft: 75°C Wasser : 90°C
Farben	Rot Blau Schwarz
Rollenlänge	30 m



Das Schnellsteck-System ermöglicht eine zeitsparende Montage ohne zusätzliche Klemme.

Schnellsteck-Schläuche dürfen auf keinen Fall mit Schlauchklemmen auf den Schnellsteckadapter montiert werden.

Bezeichnung	Innendurchmesser		Betriebsdruck (bei 20°C)		Berstdruck (bei 20°C)		Min. Biegeradius	Gewicht
	Zoll	mm	bar	PSI	bar	PSI		
MNG-P90S-10	3/8"	9,5	24	348	72	1044	80	145
MNG-P90S-12	1/2"	12,7	21	305	63	914	100	220
MNG-P90S-16	5/8"	15,9	21	305	63	914	125	250
MNG-P90S-19	3/4"	19	21	305	63	914	150	310



120°C

Clampless Hose MNG-P120S

Specifications

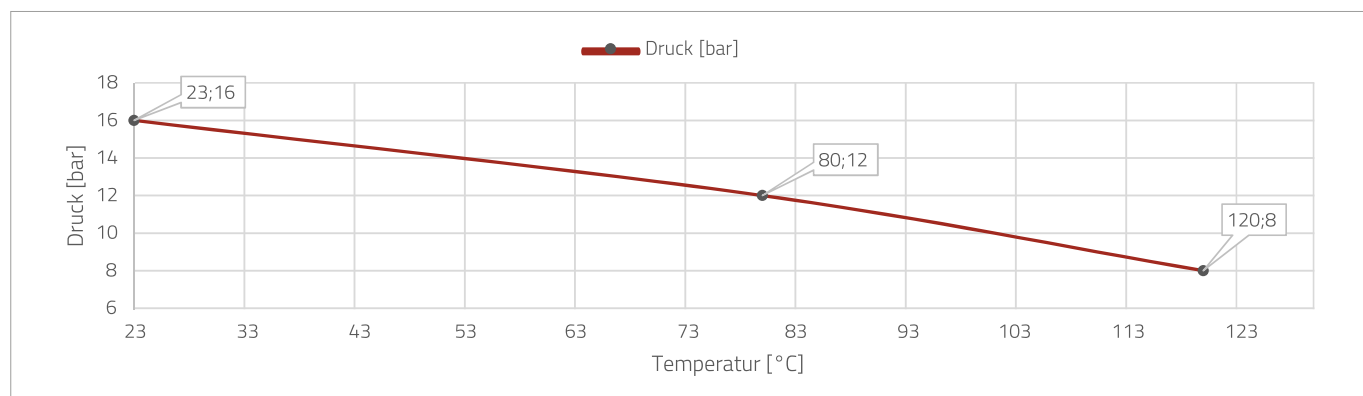
Rubber Tube	EPDM black
Reinforcement	Synthetic yarn, spiralized
Cover	Ozon- and weather resistant smooth EPDM cover
Application	cooling liquids, antifreeze, air, water
Temperature	-40°C up to +120°C
Media temperature	Air: 75°C Water: 120°C
Colors	Red Blue Black
Roll lenght	40 m



The clampless-connect system enables time-saving assembly without an additional clamp.

Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

Description	Inside diameter		Working pressure (at 20°C)		Burst pressure (at 20°C)		Min.bend radius	Weight
	Zoll	mm	bar	PSI	bar	PSI	mm	g/m
MNG-P120S-10	3/8"	9,5 +0/-0,9	16	232	> 64	> 928	85	145
MNG-P120S-12	1/2"	12,7 +0/-0,9	16	232	> 64	> 928	110	225
MNG-P120S-16	5/8"	16 +0,5/-0,5	16	232	> 64	> 928	140	320
MNG-P120S-19	3/4"	19 +0,5/-0,5	16	232	> 64	> 928	170	385



Steckschlauch MNG-P120S

Spezifikationen

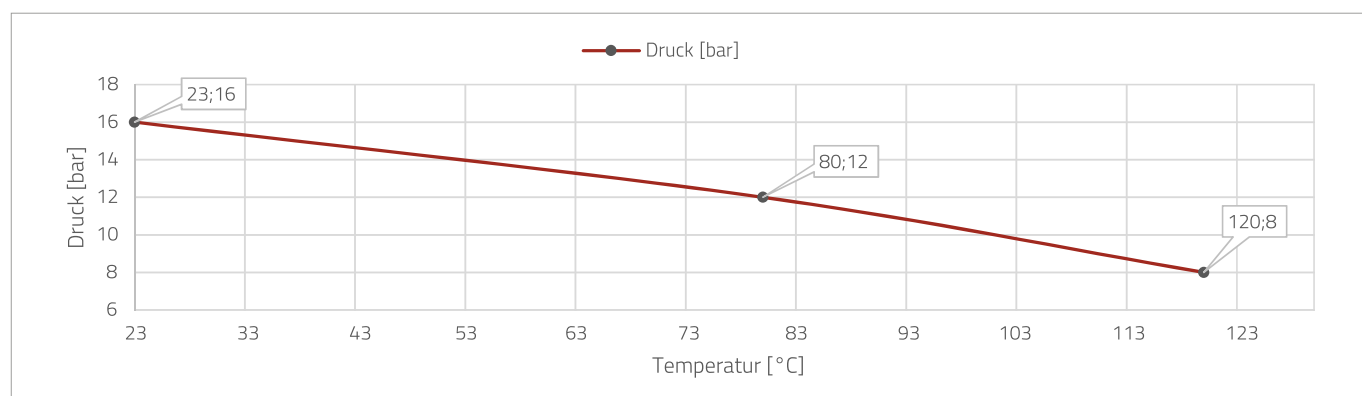
Elastomer Seele	EPDM schwarz
Druckträger	Synthetische Garne, spiralisiert
Elastomer Decke	Ozon- und Witterungsbeständige EPDM Außendecke
Empfohlene Medien	Kühlmittel, Frostschutzmittel, Luft, Wasser
Umgebungstemperatur	-40°C bis +120°C
Medientemperatur	Luft: 75°C Wasser : 120°C
Farben	Rot Blau Schwarz
Rollenlänge	40 m



Das Schnellsteck-System ermöglicht eine zeitsparende Montage ohne zusätzliche Klemme.

Schnellsteck-Schläuche dürfen auf keinen Fall mit Schlauchklemmen auf den Schnellsteckadapter montiert werden.

Bezeichnung	Innendurchmesser		Betriebsdruck (bei 20°C)		Berstdruck (bei 20°C)		Min. Biegeradius	Gewicht
	Zoll	mm	bar	PSI	bar	PSI		
MNG-P120S-10	3/8"	9,5 +0/-0,9	16	232	> 64	> 928	85	145
MNG-P120S-12	1/2"	12,7 +0/-0,9	16	232	> 64	> 928	110	225
MNG-P120S-16	5/8"	16 +0,5/-0,5	16	232	> 64	> 928	140	320
MNG-P120S-19	3/4"	19 +0,5/-0,5	16	232	> 64	> 928	170	385





140°C

Clampless Hose MNG-P140S

Specifikations

Rubber rube	special synthetic rubber
Reinforcement	high tensile textile braid
Cover	oil-, abrasion, ozone and weather resistant smooth cover
Application	For hydraulic control lines, discharge under pressure of hydraulic fluids, fuel, grease, air and water
Temperature	-40°C to +120°C
Medium Temperature	Air: 70°C Water : 140°C (not suitable for steam application)
Color	Rot Blau Schwarz
Roll lenght	30 m



The clampless-connect system enables time-saving assembly without an additional clamp.

Under no circumstances use hose clamps on clampless hoses in combination with clampless hose adapter.

Description	Ø Inside		Working pressure (at 20°C)		Burst pressure (at 20°C)		Bending radiuss	Weight
	Zoll	mm	bar	PSI	bar	PSI	mm	g/m
MNG-P140S-10	3/8"	9,5	28	406	200	2900	75	165
MNG-P140S-12	1/2"	12,7	28	406	200	2900	90	245
MNG-P140S-16	5/8"	15,9	24	348	140	2030	115	290
MNG-P140S-19	3/4"	19	21	305	83	1203	150	320



140°C

Steckschlauch MNG-P140S

Spezifikationen

Elastomer Seele	Spezieller synthetischer Gummi
Druckträger	Eine hochzugfeste Textilgeflecht-Einlage
Elastomer Decke	Öl-, Abrieb-, Ozon- und Witterungsbeständige glatte Außendecke
Empfohlene Medien	Hydraulikflüssigkeiten auf Mineralölbasis, Schmieröle, Kühlmittel, Frostschutzmittel, Luft, Wasser und Wasser-Öl-Emulsionen
Umgebungstemperatur	-40°C bis +120°C
Medientemperatur	Luft: 70°C Wasser : 140°C (nicht verwendbar für Dampf)
Farben	Rot Blau Schwarz
Rollenlänge	30 m



Das Schnellsteck-System ermöglicht eine zeitsparende Montage ohne zusätzliche Klemme.

Schnellsteck-Schläuche dürfen auf keinen Fall mit Schlauchklemmen auf den Schnellsteckadapter montiert werden.

Bezeichnung	Innendurchmesser		Betriebsdruck (bei 20°C)		Berstdruck (bei 20°C)		Min. Biegeradius	Gewicht
	Zoll	mm	bar	PSI	bar	PSI		
MNG-P140S-10	3/8"	9,5	28	406	200	2900	75	165
MNG-P140S-12	1/2"	12,7	28	406	200	2900	90	245
MNG-P140S-16	5/8"	15,9	24	348	140	2030	115	290
MNG-P140S-19	3/4"	19	21	305	83	1203	150	320