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HBE Baęlantı Elemanları San. Ve Tic. Ltd. řti.

 **+90 216 759 60 20 - info@hbe.com.tr**



HBE Bağlantı Elemanları San. ve Tic. Ltd. Şti. olarak talaşlı imalattaki güçlü ekip tecrübemizin yanı sıra mühendislik birikimimizi de kullanarak sektöre mükemmeliyetçi kalite, optimum fiyat kültürüyle hizmet etmekteyiz.

Ürünlerimizi Tuzla Deri OSB bölgesindeki 2500 metrekare kapalı alana sahip tesisimizde, C ve Y eksenli CNC Tornalarımız ve CNC İşleme merkezlerimiz ile kalite yönetim sistemimize uygun olarak hassas bir şekilde gerçekleştirmekteyiz. Standart ürünlerin yanı sıra tasarım kabiliyetimizle özel taleplere de cevap verebilmekteyiz.

Temel Değerlerimiz;

- Güvenilirlik
- Kalite
- Mutlu Müşteri
- İleri Mühendislik

HBE Bağlantı Elemanları San. ve Tic. Ltd. Şti.

We serve the sector with a perfectionist quality and optimum price culture by using our engineering experience as well as our strong team experience in machining.

We manufacture our products precisely in our facility with a closed area of 2500 square meters in Tuzla Deri OSB, with our C and Y axis CNC lathes and CNC Machining centers in accordance with our quality management system. In addition to standard products, we are also able to respond to special demands with our design capability.

Our Core Values;

- Reliability
- Quality
- Happy Customer
- Advanced Engineering

HBE 021 SERIES

7-8



DN

5mm

PRESSURE

0 – 35 bar

SEALING

NBR

HBE 025 SERIES

9-11



DN

7.8mm

PRESSURE

0 – 35 bar

SEALING

NBR

HBE 026 SERIES

12-13



DN

7.2mm

PRESSURE

0 – 35 bar

SEALING

NBR

HBE 027 SERIES

14-16



DN

10mm

PRESSURE

0 – 35 bar

SEALING

NBR

HBE 060-090-190 SERIES 17-27



DN 6mm / 9mm / 13mm
PRESSURE 0 – 20 bar
SEALING VITON

HBE 06-09-16 SERIES 28-30



DN 6mm / 9mm / 16mm
PRESSURE 0 – 20 bar
SEALING VITON

HBE 070 SERIES 31-32



DN From 4mm to 50mm
PRESSURE 0 – 300 bar
SEALING NBR

HBE 100 SERIES 33-38



DN 6 / 8.3 / 13mm
PRESSURE 0 – 10 bar
SEALING NBR

HBE 120 SERIES

39-40



DN

11mm

PRESSURE

0 – 35 bar

SEALING

NBR

HBE 160

41-42



DN

16mm

PRESSURE

0 – 25 bar

SEALING

NBR

HBE 161 SERIES

43-44



DN

20mm

PRESSURE

0 – 25 bar

SEALING

NBR

MOLD COOLING ITEMS 45-49

Straight Baffle



Helical Baffle



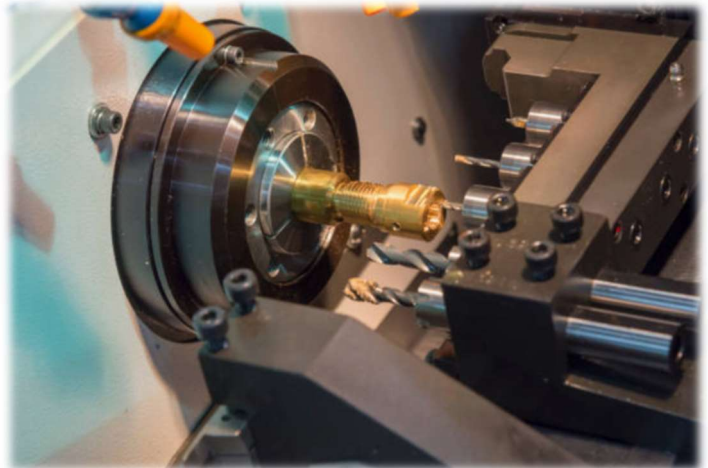
COLLECTORS

50-51



FLUID COMPATIBILITY

52-57



	Series No	Connection Type	Part Type	DN	Valve Type	Material	Thread	Seal Type	Additional Info
H B E	17	E : Male BSP	G: Socket	03	F : Free	B : Brass	10 : 1/8"	E: EPDM	Cr: Chrome
	20	D : Female BSP	U: Plug	04	B : Both	S : Steel	13 : 1/4"	N : NBR	Ni: Nikel Pl.
	21	H : Hose		05	O : One	W: Stainless	17 : 3/8"	V : FPM	B : Blue
	25	U : UNF		06		P : Plastic	21 : 1/2"	T : PTFE	R : Red
	59	R : Male BSPT		07			26 : 3/4"	X: without	G : Green
	60	Q : Female BSPT		08			33 : 1"		Y : Yellow
	70	T : Male NPT		09			38 : 1 1/8"		SF: Safety
	71	N : Female NPT		10			42 : 1 1/4"		LP:Low Pressure
	90	P : Plastic Hose		11			48 : 1 1/2"		MP:Med. Press.
	92	C : Copper Hose		12			54 : 1 3/4"		HP: High Press.
	93	F : Push-Lock		15			60 : 2"		HT: High Temp.
	98	Y : With Spring		16			75 : 2 1/2"		LN: Lock. Nut
	99			19			88 : 3"		LS: Lock. Screw
	100			20			M10 (x1)		SV:Short Version
	120			25			M12(x1.5)		LT:Long Thread
	190			32			M14(x1.5)		etc.
	etc.			38			M16(x1.5)		
				50			U13		
				60			U17		
				75			etc.		

STRAIGHT – THROUGH



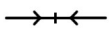
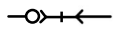
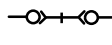
SINGLE SHUT-OFF



DOUBLE SHUT-OFF



HBE 021 SERIES

	PNEUMATIC QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

RECTUS 21, PARKER 21 KA, KB,

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)

FPM (V) : -20°C + 180°C (- 4°F + 356°F)

EPDM (E) : -40°C + 150°C (- 40°F + 302°F)

Working Pressure / Betriebsdruck

0 - 35 Bar (0 - 510 PSI)

Flow Capacity / Nenn Weite

NW - 5mm

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve / Hülse : Brass / Messing

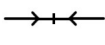
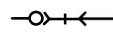
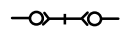
Springs / Federn : Stainless Steel / Rostfreier Stahl

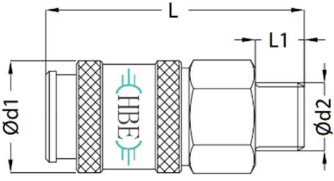
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

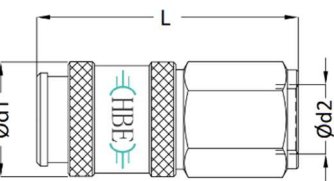
Plug / Nippel : Brass / Messing

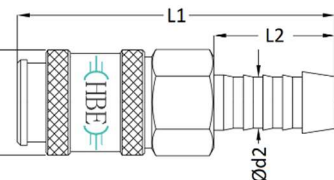


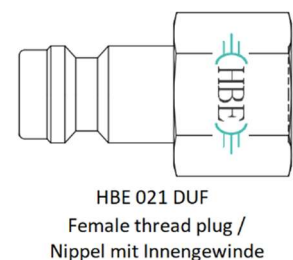
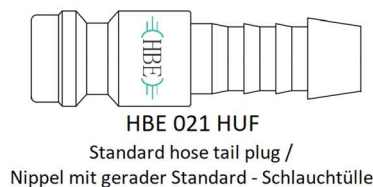
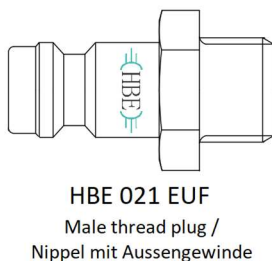
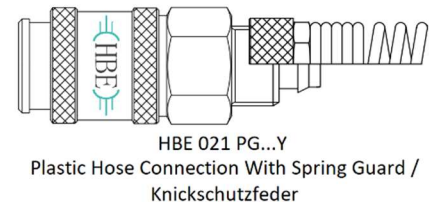
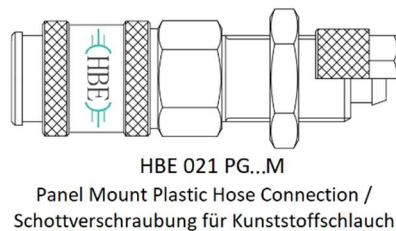
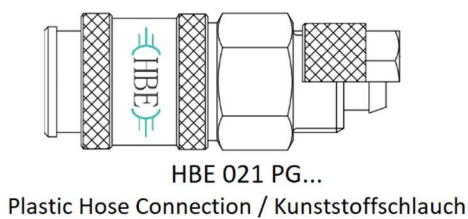
HBE 021 SERIES

	PNEUMATIC QUICK COUPLINGS			
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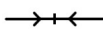
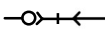
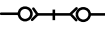
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	L ₁	SW
	5	HBE 021 EGB 10	HBE 021 EGF 10	HBE 021 EGO 10	BSP 1/8	16	36	9	14
		HBE 021 EGB 13	HBE 021 EGF 13	HBE 021 EGO 13	BSP 1/4	16	38	10	17
		HBE 021 EGB 17	HBE 021 EGF 17	HBE 021 EGO 17	BSP 3/8	16	38	10	19
		HBE 021 EGB M12	HBE 021 EGF M12	HBE 021 EGO M12	M12x1,5	16	39	10	17
		HBE 021 EGB M14	HBE 021 EGF M14	HBE 021 EGO M14	M14x1,5	16	39	10	17

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	SW
	5	HBE 021 DGB 10	HBE 021 DGF 10	HBE 021 DGO 10	BSP 1/8	16	37	14
		HBE 021 DGB 13	HBE 021 DGF 13	HBE 021 DGO 13	BSP 1/4	16	38	17
		HBE 021 DGB 17	HBE 021 DGF 17	HBE 021 DGO 17	BSP 3/8	16	38	19
		HBE 021 DGB M12	HBE 021 DGF M12	HBE 021 DGO M12	M12x1,5	16	39	14
		HBE 021 DGB M14	HBE 021 DGF M14	HBE 021 DGO M14	M14x1,5	16	39	17

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L ₁	L ₂
	5	HBE 021 HGB 04	HBE 021 HGF 04	HBE 021 HGO 04	4	16	45	17
		HBE 021 HGB 06	HBE 021 HGF 06	HBE 021 HGO 06	6	16	45	17
		HBE 021 HGB 08	HBE 021 HGF 08	HBE 021 HGO 08	8	16	45	17
		HBE 021 HGB 09	HBE 021 HGF 09	HBE 021 HGO 09	9	16	45	17
		HBE 021 HGB 10	HBE 021 HGF 10	HBE 021 HGO 10	10	16	45	17



HBE 025 SERIES

	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

RECTUS 25,26, PARKER 25 KA, KB, CEJN 320

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)

FPM (V) : -20°C + 180°C (- 4°F + 356°F)

EPDM (E): -40°C + 150°C (- 40°F + 302°F)

Working Pressure / Betriebsdruck

0 - 35 Bar (0 - 510 PSI)

Flow Capacity / Nenn Weite

NW – 7,8mm

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass , Nickel Plated

Kupplungs Grundkörper : Messing , Vernickelt

Sleeve/Hülse: Brass,Nickel Plated / Messing, Vernickelt

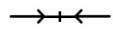
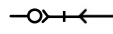
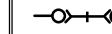
Springs / Federn : Stainless Steel / Rostfreier Stahl

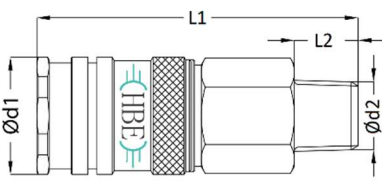
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

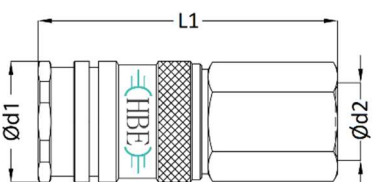
Plug / Nippel : Brass,Nickel Plated / Messing, Vernickelt

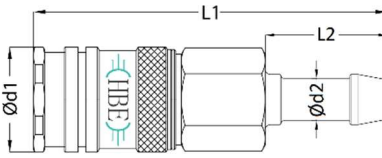


HBE 025 SERIES

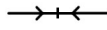
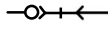
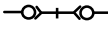
	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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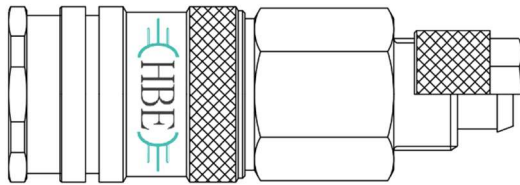
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	L ₁	SW
	7,8	HBE 025 RGB 10	HBE 025 RGF 10	HBE 025 RGO 10	BSPT 1/8	23	55	10	19
		HBE 025 RGB 13	HBE 025 RGF 13	HBE 025 RGO 13	BSPT 1/4	23	55	10	19
		HBE 025 RGB 17	HBE 025 RGF 17	HBE 025 RGO 17	BSPT 3/8	23	55	10	19
		HBE 025 RGB 21	HBE 025 RGF 21	HBE 025 RGO 21	BSPT 1/2	23	58	11	22
		HBE 025 TGB 13	HBE 025 TGF 13	HBE 025 TGO 13	NPT 1/4	23	55	10	19
		HBE 025 TGB 17	HBE 025 TGF 14	HBE 025 TGO 17	NPT 3/8	23	55	10	19
		HBE 025 TGB 21	HBE 025 TGF 21	HBE 025 TGO 21	NPT 1/2	23	58	11	22
		HBE 025 EGB 13	HBE 025 EGF 13	HBE 025 EGO 13	BSP 1/4	23	55	10	19
		HBE 025 EGB 17	HBE 025 EGF 17	HBE 025 EGO 17	BSP 3/8	23	55	10	19
		HBE 025 EGB 21	HBE 025 EGF 21	HBE 025 EGO 21	BSP 1/2	23	58	11	22
		HBE 025 EGB M14	HBE 025 EGF M14	HBE 025 EGO M14	M14x1,5	23	55	10	19
		HBE 025 EGB M16	HBE 025 EGF M16	HBE 025 EGO M16	M16x1,5	23	55	10	19
		HBE 025 EGB M18	HBE 025 EGF M18	HBE 025 EGO M18	M18x1,5	23	55	10	19

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L ₁	SW
	7,8	HBE 025 DGB 10	HBE 025 DGF 10	HBE 025 DGO 10	BSP 1/8	23	54	19
		HBE 025 DGB 13	HBE 025 DGF 13	HBE 025 DGO 13	BSP 1/4	23	54	19
		HBE 025 DGB 17	HBE 025 DGF 17	HBE 025 DGO 17	BSP 3/8	23	54	19
		HBE 025 DGB 21	HBE 025 DGF 21	HBE 025 DGO 21	BSP 1/2	23	58	24
		HBE 025 NGB 13	HBE 025 NGF 13	HBE 025 NGO 13	NPT 1/4	23	54	19
		HBE 025 NGB 17	HBE 025 NGF 14	HBE 025 NGO 17	NPT 3/8	23	54	19
		HBE 025 NGB 21	HBE 025 NGF 21	HBE 025 NGO 21	NPT 1/2	23	58	24
		HBE 025 DGB M14	HBE 025 DGF M14	HBE 025 DGO M14	M14x1,5	23	54	19
		HBE 025 DGB M16	HBE 025 DGF M16	HBE 025 DGO M16	M16x1,5	23	54	19
		HBE 025 DGB M18	HBE 025 DGF M18	HBE 025 DGO M18	M18x1,5	23	54	22

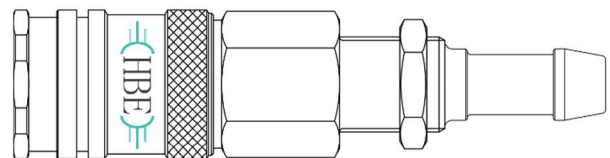
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L ₁	L ₂
	7,8	HBE 025 HGB 06	HBE 025 HGF 06	HBE 025 HGO 06	6	23	68	23
		HBE 025 HGB 08	HBE 025 HGF 08	HBE 025 HGO 08	8	23	68	23
		HBE 025 HGB 09	HBE 025 HGF 09	HBE 025 HGO 09	9	23	68	23
		HBE 025 HGB 10	HBE 025 HGF 10	HBE 025 HGO 10	10	23	68	23
		HBE 025 HGB 13	HBE 025 HGF 13	HBE 025 HGO 13	13	23	68	23

HBE 025 SERIES

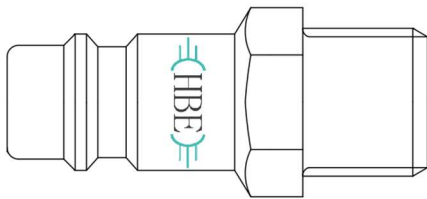
	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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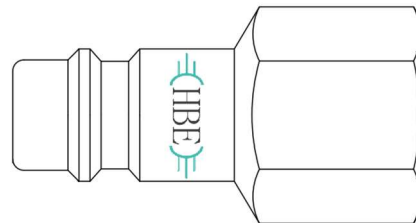
HBE 025 PGB
Plastic Hose Coupling /
Schlauchkupplung aus Kunststoff



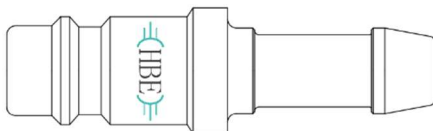
HBE 025 HG...M
Panel Mount Hose Barb /
Schottverschraubung für Schlauchanschluss



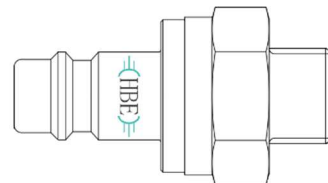
HBE 025 RUF / TUF / EUF
Male thread plug /
Nippel mit Aussengewinde



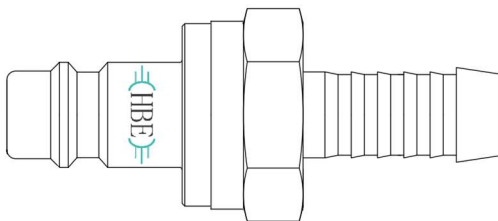
HBE 025 DUF/NUF
Female thread plug /
Nippel mit Innengewinde



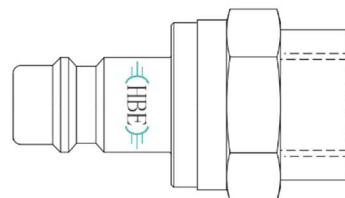
HBE 025 HUF
Standard Hose Tail /
Standard-Schlauchtülle



HBE 025 EUI
Male Thread Plug with Valve /
Außengewindestopfen mit Ventil

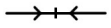
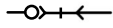
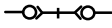


HBE 025 HUI
Standard hose tail plug with valve / Nippel mit
gerader Standard - Schlauchtülle mit Ventil



HBE 025 DUI
Female thread plug with valve /
Nippel mit Innengewinde mit Ventil

HBE 026 SERIES

	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

RECTUS 26, PARKER 26 KA, CEJN 320

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)

FPM (V) : -20°C + 180°C (- 4°F + 356°F)

EPDM (E): -40°C + 150°C (- 40°F + 302°F)

Working Pressure / Betriebsdruck

0 - 35 Bar (0 - 510 PSI)

Flow Capacity / Nenn Weite

NW – 7,2mm

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve/Hülse: Brass / Messing

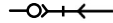
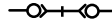
Springs / Federn : Stainless Steel / Rostfreier Stahl

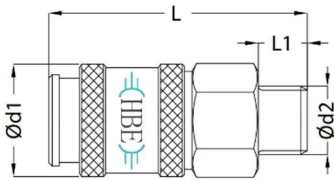
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

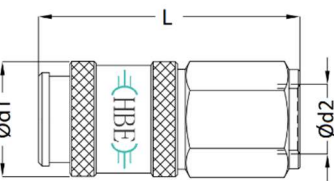
Plug / Nippel : Brass / Messing

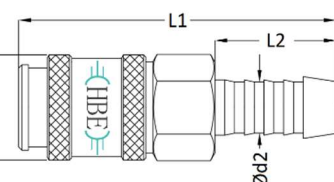


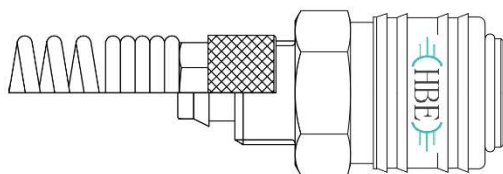
HBE 026 SERIES

	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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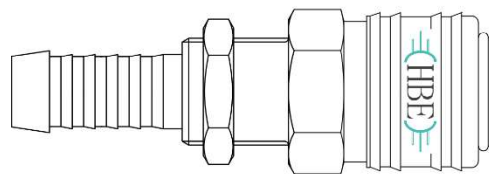
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	L ₁	SW
	7,2	HBE 026 EGB 10	HBE 026 EGF 10	HBE 026 EGO 10	BSP 1/8	24	45	10	20
		HBE 026 EGB 13	HBE 026 EGF 13	HBE 026 EGO 13	BSP 1/4	24	45	10	20
		HBE 026 EGB 17	HBE 026 EGF 17	HBE 026 EGO 17	BSP 3/8	24	45	10	20
		HBE 026 EGB 21	HBE 026 EGF 21	HBE 026 EGO 21	BSP 1/2	24	45	11	21
		HBE 026 EGB M14	HBE 026 EGF M14	HBE 026 EGO M14	M14x1,5	24	45	10	20
		HBE 026 EGB M16	HBE 026 EGF M16	HBE 026 EGO M16	M16x1,5	24	45	10	20
		HBE 026 EGB M18	HBE 026 EGF M18	HBE 026 EGO M18	M18x1,5	24	45	10	20

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	SW
	7,2	HBE 026 DGB 10	HBE 026 DGF 10	HBE 026 DGO 10	BSP 1/8	24	46	20
		HBE 026 DGB 13	HBE 026 DGF 13	HBE 026 DGO 13	BSP 1/4	24	46	20
		HBE 026 DGB 17	HBE 026 DGF 17	HBE 026 DGO 17	BSP 3/8	24	46	20
		HBE 026 DGB 21	HBE 026 DGF 21	HBE 026 DGO 21	BSP 1/2	24	47	24
		HBE 026 DGB M14	HBE 026 DGF M14	HBE 026 DGO M14	M14x1,5	24	46	20
		HBE 026 DGB M16	HBE 026 DGF M16	HBE 026 DGO M16	M16x1,5	24	46	20
		HBE 026 DGB M18	HBE 026 DGF M18	HBE 026 DGO M18	M18x1,5	24	46	20

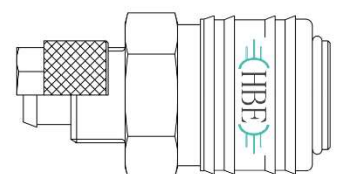
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L ₁	L ₂
	7,2	HBE 026 HGB 06	HBE 026 HGF 06	HBE 026 HGO 06	6	24	56	20
		HBE 026 HGB 08	HBE 026 HGF 08	HBE 026 HGO 08	8	24	56	20
		HBE 026 HGB 09	HBE 026 HGF 09	HBE 026 HGO 09	9	24	56	20
		HBE 026 HGB 10	HBE 026 HGF 10	HBE 026 HGO 10	10	24	56	20
		HBE 026 HGB 13	HBE 026 HGF 13	HBE 026 HGO 13	13	24	56	20



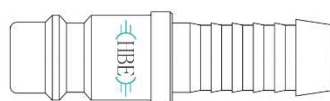
HBE 026 PGBM / PGFM / PGOM



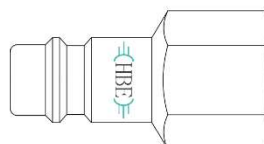
HBE 026 HGBM / HGFM / HGOM



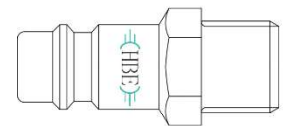
HBE 026 PGB / PGF / PGO



HBE 026 HUF

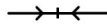
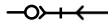
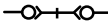


HBE 026 DUF



HBE 026 EUF

HBE 027 SERIES

	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

RECTUS 27, PARKER 27 KA, CEJN 410

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)

FPM (V) : -20°C + 180°C (- 4°F + 356°F)

EPDM (E) : -40°C + 150°C (- 40°F + 302°F)

Working Pressure / Betriebsdruck

0 - 35 Bar (0 - 510 PSI)

Flow Capacity / Nenn Weite

NW – 10mm

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass , Nickel Plated

Kupplungs Grundkörper : Messing , Vernickelt

Sleeve/Hülse: Brass,Nickel Plated / Messing, Vernickelt

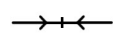
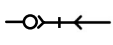
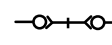
Springs / Federn : Stainless Steel / Rostfreier Stahl

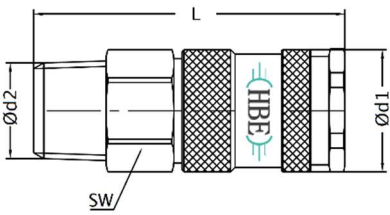
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

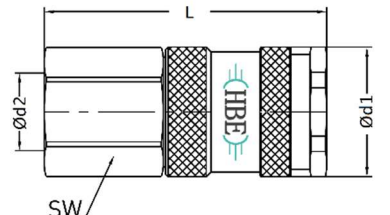
Plug / Nippel : Brass,Nickel Plated / Messing, Vernickelt

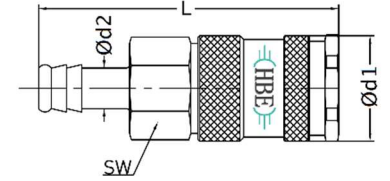


HBE 027 SERIES

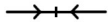
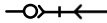
	EURO PROFILE PNEUMATIC QUICK COUPLINGS			
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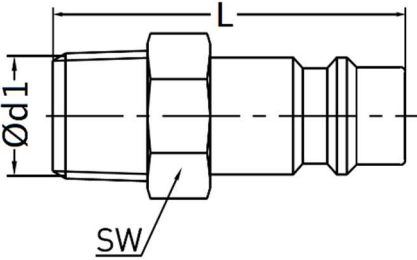
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	SW
	10	HBE 027 RGB 13	HBE 027 RGF 13	HBE 027 RGO 13	BSPT 1/4	28	60	24
		HBE 027 RGB 17	HBE 027 RGF 17	HBE 027 RGO 17	BSPT 3/8	28	60	24
		HBE 027 RGB 21	HBE 027 RGF 21	HBE 027 RGO 21	BSPT 1/2	28	60	24
		HBE 027 RGB 26	HBE 027 RGF 26	HBE 027 RGO 26	BSPT 3/4	28	60	30
		HBE 027 TGB 13	HBE 027 TGF 13	HBE 027 TGO 13	NPT 1/4	28	60	24
		HBE 027 TGB 17	HBE 027 TGF 17	HBE 027 TGO 17	NPT 3/8	28	60	24
		HBE 027 TGB 21	HBE 027 TGF 21	HBE 027 TGO 21	NPT 1/2	28	60	24
		HBE 027 TGB 26	HBE 027 TGF 26	HBE 027 TGO 26	BSP 3/4	28	60	30
		HBE 027 EGB 13	HBE 027 EGF 13	HBE 027 EGO 13	BSP 1/4	28	60	24
		HBE 027 EGB 17	HBE 027 EGF 17	HBE 027 EGO 17	BSP 3/8	28	60	24
		HBE 027 EGB 21	HBE 027 EGF 21	HBE 027 EGO 21	BSP 1/2	28	60	24
		HBE 027 EGB 26	HBE 027 EGF 26	HBE 027 EGO 26	BSP 3/4	28	60	30

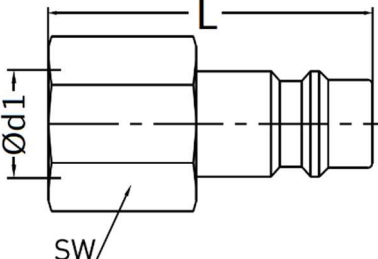
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	SW
	10	HBE 027 DGB 13	HBE 027 DGF 13	HBE 027 DGO 13	BSP 1/4	28	59	24
		HBE 027 DGB 17	HBE 027 DGF 17	HBE 027 DGO 17	BSP 3/8	28	59	24
		HBE 027 DGB 21	HBE 027 DGF 21	HBE 027 DGO 21	BSP 1/2	28	61	24
		HBE 027 DGB 26	HBE 027 DGF 26	HBE 027 DGO 26	BSP 3/4	28	61	24
		HBE 027 NGB 13	HBE 027 NGF 13	HBE 027 NGO 13	NPT 1/4	28	59	24
		HBE 027 NGB 17	HBE 027 NGF 14	HBE 027 NGO 17	NPT 3/8	28	59	24
		HBE 027 NGB 21	HBE 027 NGF 21	HBE 027 NGO 21	NPT 1/2	28	61	24
		HBE 027 NGB 26	HBE 027 NGF 26	HBE 027 NGO 26	NPT 3/4	28	61	24

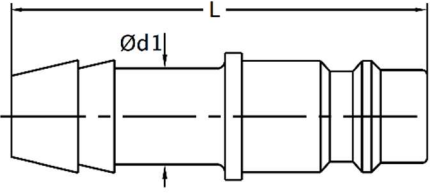
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Double Valve / Doppelt Ventil	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	L	SW
	10	HBE 027 HGB 06	HBE 027 HGF 06	HBE 027 HGO 06	6	28	75	24
		HBE 027 HGB 08	HBE 027 HGF 08	HBE 027 HGO 08	8	28	75	24
		HBE 027 HGB 09	HBE 027 HGF 09	HBE 027 HGO 09	9	28	75	24
		HBE 027 HGB 10	HBE 027 HGF 10	HBE 027 HGO 10	10	28	75	24
		HBE 027 HGB 13	HBE 027 HGF 13	HBE 027 HGO 13	13	28	75	24

HBE 027 SERIES

	EUROPEAN PROFILE PLUGS / STECKNIPPEL		
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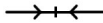
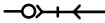
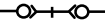
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	L	SW
	10	HBE 027 EUF 10	BSP 1/8	38	17
		HBE 027 EUF 13	BSP 1/4	38	17
		HBE 027 EUF 17	BSP 3/8	38	17
		HBE 027 EUF 21	BSP 1/2	43	22
		HBE 027 RUF 10	BSPT 1/8	41	17
		HBE 027 RUF 13	BSPT 1/4	41	17
		HBE 027 RUF 17	BSPT 3/8	42	17
		HBE 027 EUF 21	BSPT 1/2	48	22

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	L	SW
	10	HBE 027 DUF 13	BSP 1/4	35	17
		HBE 027 DUF 17	BSP 3/8	35	19
		HBE 027 DUF 21	BSP 1/2	40	24
		HBE 027 DUF 26	BSP 3/4	45	30
		HBE 027 NUF 13	BSPT 1/4	35	17
		HBE 027 NUF 17	BSPT 3/8	35	19
		HBE 027 NUF 21	BSPT 1/2	40	24
		HBE 027 NUF 26	BSPT 3/4	45	30

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	l_1	Con.
	10	HBE 027 HUF 06	15	48	6mm
		HBE 027 HUF 08	15	48	8mm
		HBE 027 HUF 09	15	48	9mm
		HBE 027 HUF 10	15	48	10mm
		HBE 027 HUF 13	15	49	13mm
		HBE 027 HUF 16	15	49	16mm
		HBE 027 HUF 19	15	53	19mm

TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

EURO CONNECTOR
HASCO, EOC, DYROS, PARADISI

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)
FPM (V) : -20°C + 200°C (- 4°F + 392°F)

Working Pressure / Betriebsdruck

0 - 25 Bar (0 - 360 PSI)

Flow Capacity / Nenn Weite

NW – 6mm / 9mm / 13mm

Standard Version

Seals / Dichtung : FPM (V)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve/Hülse: Brass / Messing

Springs / Federn : Stainless Steel / Rostfreier Stahl

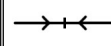
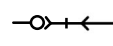
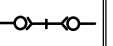
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

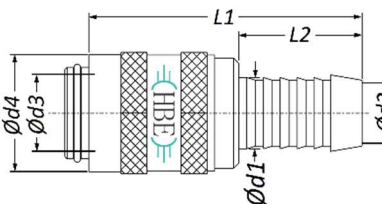
Plug / Nippel : Brass / Messing

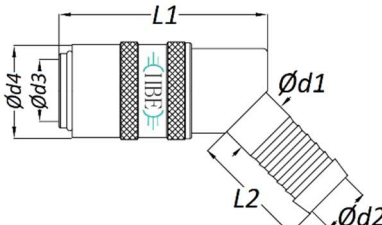


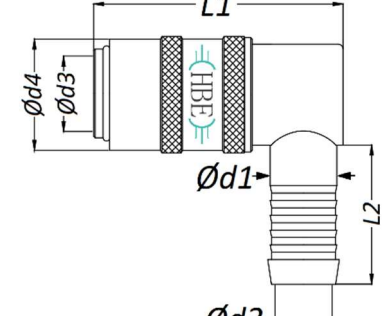
TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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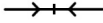
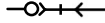
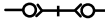
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 HGF 06	HBE 060 HGB 06	6	4	9	17	46	17
		HBE 060 HGF 08	HBE 060 HGB 08	8	5,5	9	17	46	17
		HBE 060 HGF 09	HBE 060 HGB 09	9	6	9	17	46	17
		HBE 060 HGF 10	HBE 060 HGB 10	10	7	9	17	46	17
		HBE 060 HGF 13	HBE 060 HGB 13	13	9	9	17	52	23
	9	HBE 090 HGF 10	HBE 090 HGB 10	10	7	13	22	60	23
		HBE 090 HGF 13	HBE 090 HGB 13	13	9	13	22	60	23
	13	HBE 190 HGF 19	HBE 190 HGB 19	19	15	19	31	90	32
		HBE 190 HGF 25	HBE 190 HGB 25	25	19	19	31	90	32

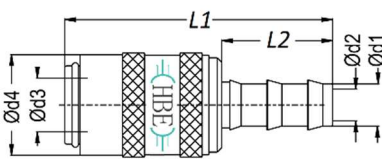
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 HGF 06-45	HBE 060 HGB 06-45	6	4	9	17	41	17
		HBE 060 HGF 08-45	HBE 060 HGB 08-45	8	5,5	9	17	41	17
		HBE 060 HGF 09-45	HBE 060 HGB 09-45	9	6	9	17	41	17
		HBE 060 HGF 10-45	HBE 060 HGB 10-45	10	7	9	17	41	17
		HBE 060 HGF 13-45	HBE 060 HGB 13-45	13	9	9	17	41	23
	9	HBE 090 HGF 10-45	HBE 090 HGB 10-45	10	7	13	22	51	23
		HBE 090 HGF 13-45	HBE 090 HGB 13-45	13	9	13	22	51	23
	13	HBE 190 HGF 19-45	HBE 190 HGB 19-45	19	15	19	31	78	32
		HBE 190 HGF 25-45	HBE 190 HGB 25-45	25	19	19	31	78	32

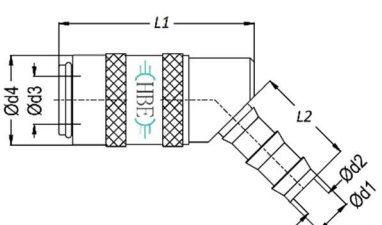
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 HGF 06-90	HBE 060 HGB 06-90	6	4	9	17	42	17
		HBE 060 HGF 08-90	HBE 060 HGB 08-90	8	5,5	9	17	42	17
		HBE 060 HGF 09-90	HBE 060 HGB 09-90	9	6	9	17	42	17
		HBE 060 HGF 10-90	HBE 060 HGB 10-90	10	7	9	17	42	17
		HBE 060 HGF 13-90	HBE 060 HGB 13-90	13	9	9	17	42	23
	9	HBE 090 HGF 10-90	HBE 090 HGB 10-90	10	7	13	22	51	23
		HBE 090 HGF 13-90	HBE 090 HGB 13-90	13	9	13	22	51	23
	13	HBE 190 HGF 19-90	HBE 190 HGB 19-90	19	15	19	31	87	32
		HBE 190 HGF 25-90	HBE 190 HGB 25-90	25	19	19	31	87	32

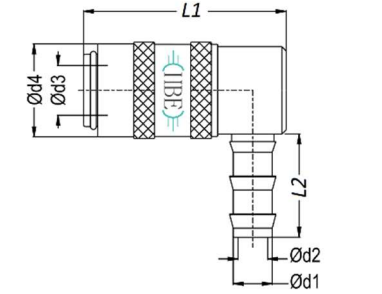
TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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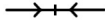
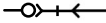
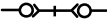
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 FGF 06	HBE 060 FGB 06	6	4	9	17	52	24
		HBE 060 FGF 10	HBE 060 FGB 10	10	7	9	17	52	24
		HBE 060 FGF 13	HBE 060 FGB 13	13	10	9	17	56	28
	9	HBE 090 FGF 10	HBE 090 FGB 10	10	7	13	22	64	28
		HBE 090 FGF 13	HBE 090 FGB 13	13	10	13	22	64	28
	13	HBE 190 FGF 19	HBE 190 FGB 19	19	15	19	31	96	38
		HBE 190 FGF 25	HBE 190 FGB 25	25	19	19	31	96	38

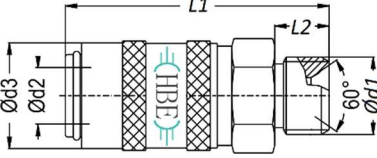
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 FGF 06-45	HBE 060 FGB 06-45	6	4	9	17	48	24
		HBE 060 FGF 10-45	HBE 060 FGB 10-45	10	7	9	17	48	24
		HBE 060 FGF 13-45	HBE 060 FGB 13-45	13	10	9	17	48	28
	9	HBE 090 FGF 10-45	HBE 090 FGB 10-45	10	7	13	22	55	28
		HBE 090 FGF 13-45	HBE 090 FGB 13-45	13	10	13	22	55	28
	13	HBE 190 FGF 19-45	HBE 190 FGB 19-45	19	15	19	31	84	38
		HBE 190 FGF 25-45	HBE 190 FGB 25-45	25	19	19	31	84	38

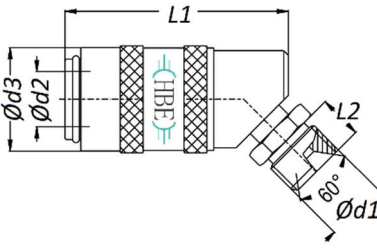
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 FGF 06-90	HBE 060 FGB 06-90	6	4	9	17	42	25
		HBE 060 FGF 10-90	HBE 060 FGB 10-90	10	7	9	17	42	25
		HBE 060 FGF 13-90	HBE 060 FGB 13-90	13	10	9	17	42	25
	9	HBE 090 FGF 10-90	HBE 090 FGB 10-90	10	7	13	22	51	27
		HBE 090 FGF 13-90	HBE 090 FGB 13-90	13	10	13	22	51	27
	13	HBE 190 FGF 19-90	HBE 190 FGB 19-90	19	15	19	31	87	28
		HBE 190 FGF 25-90	HBE 190 FGB 25-90	25	19	19	31	87	28

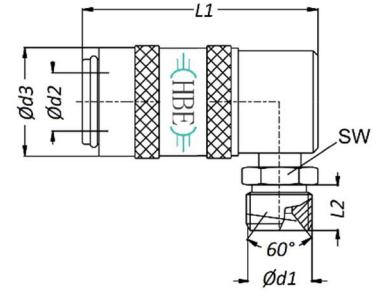
TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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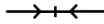
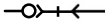
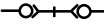
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EGF 10	HBE 060 EGB 10	M10x1	9	17	48	9	17
		HBE 060 EGF 13	HBE 060 EGB 13	BSP 1/4	9	17	48	9	17
		HBE 060 EGF M14	HBE 060 EGB M14	M14x1,5	9	17	48	9	17
		HBE 060 EGF M16	HBE 060 EGB M16	M16x1,5	9	17	48	9	19
	9	HBE 060 EGF 17	HBE 060 EGB 18	BSP 3/8	9	17	48	9	19
		HBE 090 EGF 13	HBE 090 EGB 13	BSP 1/4	13	22	52	9	21
		HBE 090 EGF M16	HBE 090 EGB M16	M16x1,5	13	22	52	9	21
		HBE 090 EGF 17	HBE 090 EGB 17	BSP 3/8	13	22	52	9	21
	13	HBE 090 EGF 21	HBE 090 EGB 21	BSP 1/2	13	22	52	12	22
		HBE 190 EGF 21	HBE 190 EGB 21	BSP 1/2	19	31	74	12	30
		HBE 190 EGF M24	HBE 190 EGB M24	M24x1,5	19	31	78	16	30

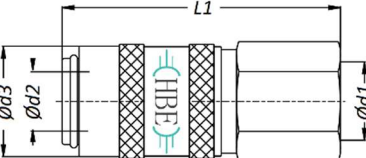
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EGF 13-45	HBE 060 EGB 13-45	BSP 1/4	9	17	35	9	17
		HBE 060 EGF M14-45	HBE 060 EGB M14-45	M14x1,5	9	17	35	9	17
		HBE 060 EGF 17-45	HBE 060 EGB 17-45	BSP 3/8	9	17	35	9	19
	9	HBE 090 EGF 17-45	HBE 090 EGB 17-45	BSP 3/8	13	22	42	12	19
		HBE 090 EGF 21-45	HBE 090 EGB 21-45	BSP 1/2	13	22	42	12	22
	13	HBE 190 EGF 21-45	HBE 190 EGB 21-45	BSP 1/2	19	31	57	14	30
		HBE 190 EGF M24-45	HBE 190 EGB M24-45	M24x1,5	19	31	57	14	30

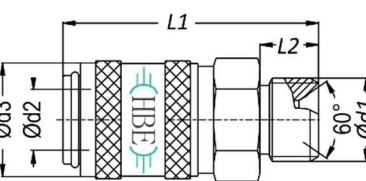
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EGF 13-90	HBE 060 EGB 13-90	BSP 1/4	9	17	48	11	17
		HBE 060 EGF M14-90	HBE 060 EGB M14-90	M14x1,5	9	17	48	11	17
		HBE 060 EGF 17-90	HBE 060 EGB 17-90	BSP 3/8	9	17	48	11	19
	9	HBE 090 EGF 17-90	HBE 090 EGB 17-90	BSP 3/8	13	22	52	11	19
		HBE 090 EGF 21-90	HBE 090 EGB 21-90	BSP 1/2	13	22	52	14	22
	13	HBE 190 EGF 21-90	HBE 190 EGB 21-90	BSP 1/2	19	31	76	14	30
		HBE 190 EGF M24-90	HBE 190 EGB M24-90	M24x1,5	19	31	76	16	30

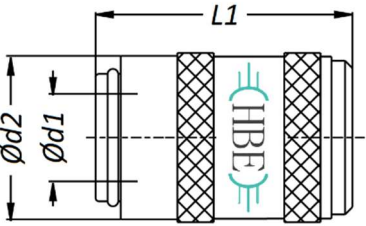
TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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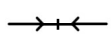
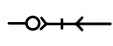
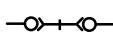
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 DGF 10	HBE 060 DGB 10	M10x1	9	17	44	9	17
		HBE 060 DGF 13	HBE 060 DGB 13	BSP 1/4	9	17	44	11	17
		HBE 060 DGF M14	HBE 060 DGB M14	M14x1,5	9	17	44	11	17
		HBE 060 DGF 17	HBE 060 DGB 17	BSP 3/8	9	17	44	11	21
	9	HBE 090 DGF 13	HBE 090 DGB 13	BSP 1/4	13	22	48	11	17
		HBE 090 DGF M16	HBE 090 DGB M16	M16x1,5	13	22	48	11	21
		HBE 090 DGF 17	HBE 090 DGB 17	BSP 3/8	13	22	48	11	21
		HBE 090 DGF 21	HBE 090 DGB 21	BSP 1/2	13	22	48	11	25
	13	HBE 190 DGF 21	HBE 190 DGB 21	BSP 1/2	19	31	70	14	30
		HBE 190 DGF M24	HBE 190 DGB M24	M24x1,5	19	31	72	16	30
		HBE 190 DGF 26	HBE 190 DGB 26	BSP 3/4	19	31	72	16	30

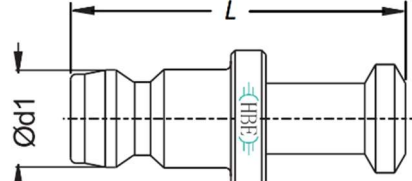
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EGB 13-KB	BSP 1/4	9	17	38	9	17
	9	HBE 090 EGB 17-KB	BSP 3/8	13	17	38	9	17

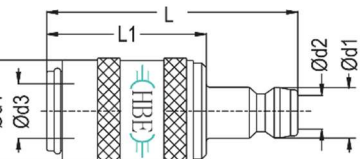
Socket / Kupplung	Size / Größe	Order No / Bestell Nr.	$\varnothing d_1$	$\varnothing d_2$	l_1
	6	HBE 060 KTG 00	9	17	30
	9	HBE 090 KTG 00	13	22	36
	13	HBE 190 KTG 00	19	31	58

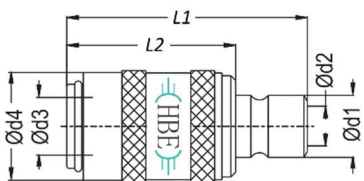
TEMPERATURE REGULATION SERIES

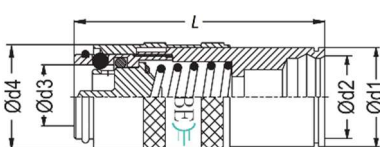
HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE QUICK COUPLINGS			
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Plug / Nippel	Size / Größe	Order No / Bestell Nr.	$\varnothing d_1$	L
	6	HBE 060 KTU 00	9	28
	9	HBE 090 KTU 00	13	30
	13	HBE 190 KTU 00	19	52

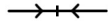
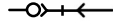
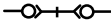
Socket and Plug / Kupplung und Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 AUF H060	HBE 060 AUB H060	9	6	9	17	45	32
		HBE 060 AUF H090	HBE 060 AUB H090	13	6	9	17	45	32
	9	HBE 090 AUF H060	HBE 090 AUB H060	9	9	13	22	51	36
		HBE 090 AUF H090	HBE 090 AUB H090	13	9	13	22	51	36

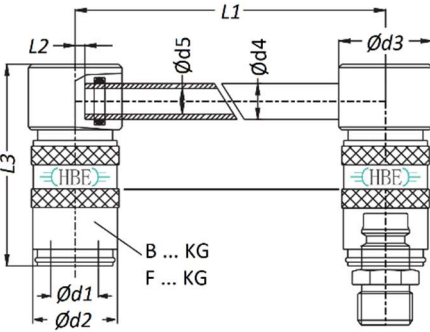
Socket and Plug / Kupplung und Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 060 AUF H06	HBE 060 AUB H06	9	6	9	17	48	32
		HBE 060 AUF H09	HBE 060 AUB H09	13	6	9	17	48	32
	9	HBE 090 AUF H06	HBE 090 AUB H06	9	9	13	22	52	36
		HBE 090 AUF H09	HBE 090 AUB H09	13	9	13	22	52	36

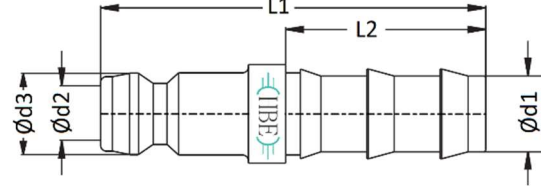
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	L
	6	HBE 060 AUB H100.08	21	14	9	17	44
	9	HBE 090 AUB H100.08	21	17	13	38	45

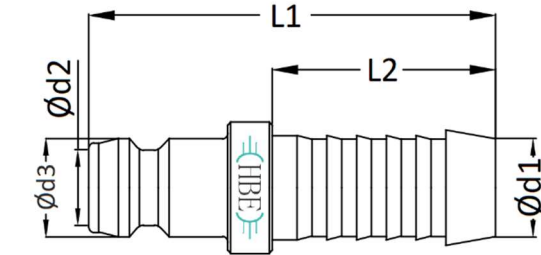
TEMPERATURE REGULATION SERIES

HBE 060 – 090 – 190 SERIES

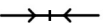
	EUROPEAN PROFILE QUICK COUPLINGS			
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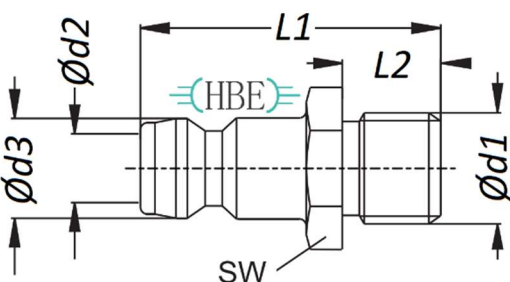
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	$\varnothing d_5$	l_1	l_2	l_3
	6	HBE 060 KGF 125	HBE 060 KGB 125	9	17	17	8	6	125	0	44
		HBE 060 KGF 250	HBE 060 KGB 250	9	17	17	8	6	250	0	44
		HBE 060 KGF 500	HBE 060 KGB 500	9	17	17	8	6	500	0	44
	9	HBE 090 KGF 125	HBE 090 KGB 125	13	22	22	10	8	125	2	53
		HBE 090 KGF 250	HBE 090 KGB 250	13	22	22	10	8	250	2	53
		HBE 090 KGF 500	HBE 090 KGB 500	13	22	22	10	8	500	2	53
	13	HBE 190 KGF 160	HBE 190 KGB 160	19	31	31	14	12	160	3	80
		HBE 190 KGF 315	HBE 190 KGB 315	19	31	31	14	12	315	3	80
		HBE 190 KGF 500	HBE 190 KGB 500	19	31	31	14	12	500	3	80

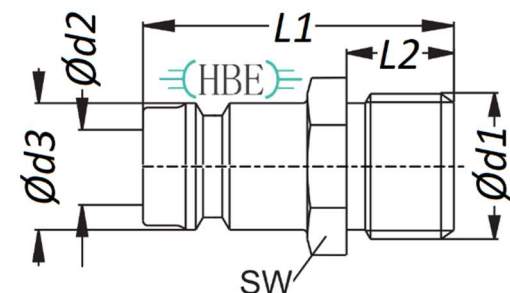
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2
	6	HBE 060 FUF 10	10	6	9	42	24
		HBE 060 FUF 13	13	6	9	45	28
	9	HBE 090 FUF 10	10	9	13	43	24
		HBE 090 FUF 13	13	9	13	47	24
	13	HBE 190 FUF 10	13	13	19	60	28
		HBE 190 FUF 13	19	13	19	70	38

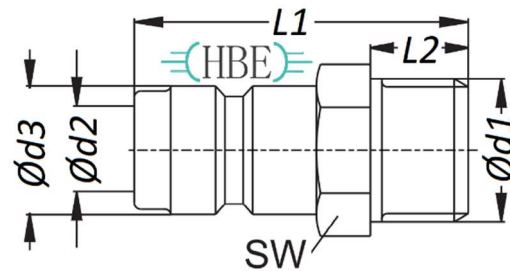
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2
	6	HBE 060 HUF 06	6	6	9	37	17
		HBE 060 HUF 08	8	6	9	37	17
		HBE 060 HUF 09	9	6	9	37	17
		HBE 060 HUF 10	10	6	9	37	17
		HBE 060 HUF 13	13	6	9	37	17
	9	HBE 090 HUF 09	9	9	13	39	23
		HBE 090 HUF 10	10	9	13	39	23
		HBE 090 HUF 13	13	9	13	39	23
	13	HBE 190 HUF 13	13	13	19	53	23
		HBE 190 HUF 16	16	13	19	55	25
		HBE 190 HUF 19	19	13	19	62	27

TEMPERATURE REGULATION SERIES
HBE 060 – 090 – 190 SERIES

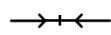
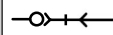
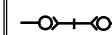
	EUROPEAN PROFILE PLUGS / STECKNIPPEL	
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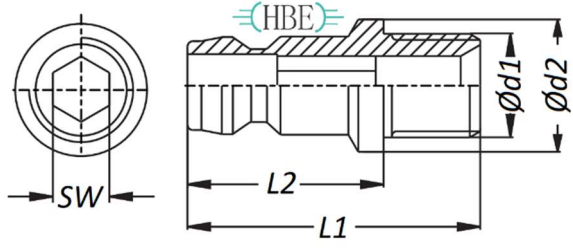
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EUF M1010	M10x1	6	9	24	7	15
		HBE 060 EUF M1015	M10x1,5	6	9	26	9	15
		HBE 060 EUF 10	BSP 1/8	6	9	24	7	15
		HBE 060 EUF 13	BSP 1/4	6	9	26	9	15
		HBE 060 EUF M14	M14x1,5	6	9	26	9	15
		HBE 060 EUF 17	BSP 3/8	6	9	26	9	17
		HBE 060 EUF M16	M16x1,5	6	9	26	9	17

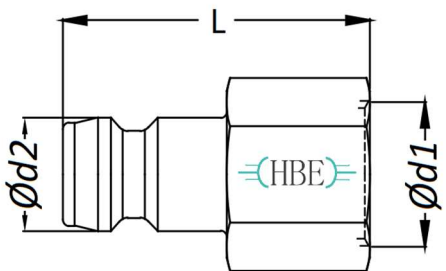
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	9	HBE 090 EUF 10	BSP 1/8	9	13	24	7	15
		HBE 090 EUF M1010	M10x1	9	13	24	7	15
		HBE 090 EUF M10	M10x1,5	9	13	26	9	15
		HBE 090 EUF M12	M12x1,5	9	13	26	9	15
		HBE 090 EUF 13	BSP 1/4	9	13	26	9	15
		HBE 090 EUF M14	M14x1,5	9	13	26	9	15
		HBE 090 EUF M16	M16x1,5	9	13	26	9	17
		HBE 090 EUF 17	BSP 3/8	9	13	26	9	17
		HBE 090 EUF 21	BSP 1/2	9	13	26	9	22

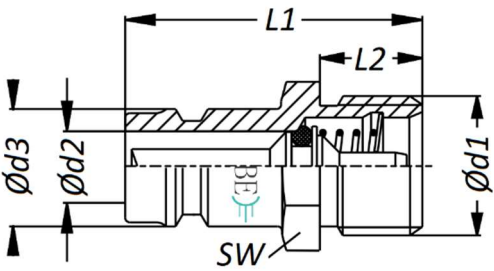
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	13	HBE 190 EUF 21	BSP 1/2	13	19	47	12	22
		HBE 190 EUF M24	M24x1,5	13	19	51	16	27
		HBE 190 EUF 26	BSP 3/4	13	19	51	16	27

TEMPERATURE REGULATION SERIES
HBE 060 – 090 – 190 SERIES

	EUROPEAN PROFILE PLUGS / STECKNIPPEL			
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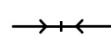
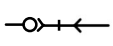
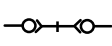
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	l_1	l_2	SW
	6	HBE 060 AUF M8	M8x0,75	10	24	16	5
		HBE 060 AUF M1010	M10x1	13	24	16	5
		HBE 060 AUF 10	BSP 1/8	13	24	17	5
		HBE 060 AUF 13	BSP 1/4	13,5	26	17	5
		HBE 060 AUF M14	M14x1,5	14,5	27	18	5
	9	HBE 090 AUF 13	BSP 1/4	13,5	24	17	8
		HBE 090 AUF M14	M14x1,5	14,5	24	17	8
		HBE 090 AUF 17	BSP 3/8	17	24	17	8

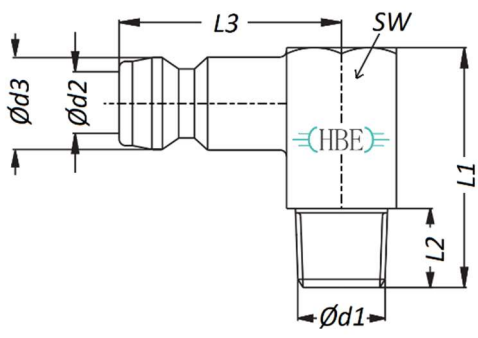
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L	SW
	6	HBE 060 DUF 10	BSP 1/8	9	25	14
		HBE 060 DUF 13	BSP 1/4	9	27	17
		HBE 060 DUF 17	BSP 3/8	9	27	19
	9	HBE 090 DUF 10	BSP 1/8	13	26	17
		HBE 090 DUF 13	BSP 1/4	13	26	19
		HBE 090 DUF 17	BSP 3/8	13	28	24
	13	HBE 190 DUF 21	BSP 1/2	19	46	24
		HBE 190 DUF 26	BSP 3/4	19	50	30

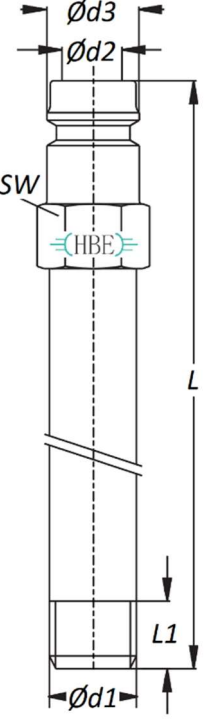
Plug / Nippel	Size / Größe	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 EUB 13	BSP 1/4	6	9	29	12	15
		HBE 060 EUB M14	M14x1,5	6	9	29	12	15
		HBE 060 EUB 17	BSP 3/8	6	9	29	12	17
	9	HBE 090 EUB 13	BSP 1/4	9	13	30	12	15
		HBE 090 EUB M14	M14x1,5	9	13	30	12	15
		HBE 090 EUB M16	M16x1,5	9	13	30	12	17
		HBE 090 EUB 17	BSP 3/8	9	13	30	12	17
		HBE 090 EUB 21	BSP 1/2	9	13	30	12	22
	13	HBE 190 EUB 21	BSP 1/2	13	19	47	12	22
		HBE 190 EUB M24	M24x1,5	13	19	51	16	27
		HBE 190 EUB 26	BSP 3/4	13	19	51	16	27

TEMPERATURE REGULATION SERIES

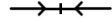
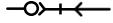
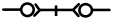
HBE 060 – 090 – 190 SERIES

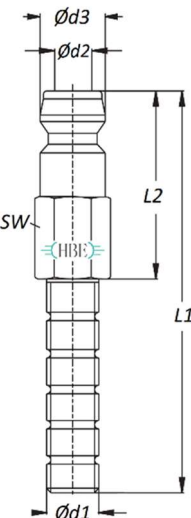
	EUROPEAN PROFILE PLUGS / STECKNIPPEL			
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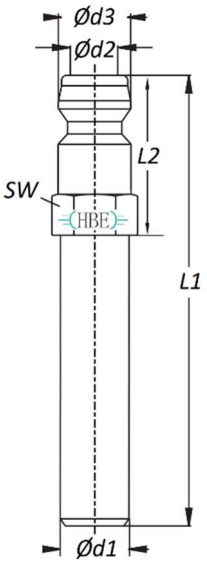
Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 RUF M10-90	M10x1	6	9	27	9	15
		HBE 060 RUF 10-90	BSPT 1/8	6	9	27	9	15
		HBE 060 RUF 13-90	BSPT 1/4	6	9	29	9	15
		HBE 060 RUF M14-90	M14x1,5	6	9	29	11	15
		HBE 060 RUF 17-90	BSPT 3/8	6	9	29	11	17
	9	HBE 090 RUF 13-90	BSPT 1/4	9	13	34	11	15
		HBE 090 RUF M14-90	M14x1,5	9	13	34	11	15
		HBE 090 RUF 17-90	BSPT 3/8	9	13	34	11	17
	13	HBE 190 RUF 21-90	BSP 1/2	13	19	47	16	24
		HBE 190 RUF M24-90	M24x1,5	13	19	47	16	24

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	L	L_1	SW
	6	HBE 060 EUF M1010xL	M10x1	6	9	60 – 100 – 150- etc.	7	11
		HBE 060 EUF M10xL	M10x1,5	6	9		9	11
		HBE 060 EUF 10xL	BSP 1/8	6	9		7	11
		HBE 060 EUF 13xL	BSP 1/4	6	9		9	15
		HBE 060 EUF M14xL	M14x1,5	6	9		10	15
		HBE 060 EUF 17xL	BSP 3/8	6	9		9	17
	9	HBE 090 EUF 10xL	BSP 1/8	9	13	60 – 100 – 150- 250- 500- etc.	7	15
		HBE 090 EUF M1010xL	M10x1	9	13		9	15
		HBE 090 EUF M10xL	M10x1,5	9	13		9	15
		HBE 090 EUF M12xL	M12x1,5	9	13		9	15
		HBE 090 EUF 13xL	BSP 1/4	9	13		9	15
		HBE 090 EUF M14xL	M14x1,5	9	13		9	15
		HBE 090 EUF M16xL	M16x1,5	9	13		9	17
		HBE 090 EUF 17xL	BSP 3/8	9	13		9	17
		HBE 090 EUF 21xL	BSP 1/2	9	13		12	22
	13	HBE 190 EUF 21xL	BSP 1/2	13	19		12	22
		HBE 190 EUF M24xL	M24x1,5	13	19		16	27
		HBE 190 EUF 26xL	BSP 3/4	13	19		16	27

TEMPERATURE REGULATION SERIES
HBE 060 – 090 – 190 SERIES

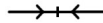
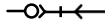
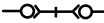
	EUROPEAN PROFILE PLUGS / STECKNIPPEL			
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Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	l_1	l_2	SW
	6	HBE 060 BL M1010	M10x1	6	9	100	40	11
		HBE 060 BL 10	BSP 1/8	6	9	100	40	11
		HBE 060 BL 13	BSP 1/4	6	9	100	40	15
		HBE 060 BL M14	M14x1,5	6	9	100	40	15
		HBE 060 BL 17	BSP 3/8	6	9	100	40	17
	9	HBE 090 BL M1010	M10x1	9	13	100	40	15
		HBE 090 BL 10	BSP 1/8	9	13	100	40	15
		HBE 090 BL 13	BSP 1/4	9	13	100	40	15
		HBE 090 BL M14	M14x1,5	9	13	100	40	15
		HBE 090 BL M16	M16x1,5	9	13	100	40	17
		HBE 090 BL 17	BSP 3/8	9	13	100	40	17

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	L_1	SW
	6	HBE 060 BN 63	8	6	9	63	11
		HBE 060 BN 100	8	6	9	100	11
		HBE 060 BN 120	10	6	9	120	11
		HBE 060 BN 240	10	6	9	240	11
		HBE 060 BN 360	10	6	9	360	11
	9	HBE 090 BN 100	10	9	13	100	15
		HBE 090 BN 120	10	9	13	120	15
		HBE 090 BN 150	10	9	13	150	15
		HBE 090 BN 300	10	9	13	300	15
		HBE 090 BN 450	10	9	13	450	15
	13	HBE 190 BN 500	10	13	19	500	22
		HBE 190 BN 800	10	13	19	800	22

TEMPERATURE REGULATION SERIES

HBE 06 – 09 – 16 SERIES

	USA PROFILE QUICK COUPLINGS			
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COMPATIBLE / KOMPATIBEL

RECTUS 86 – 87 – 88 , DME – FOSTER FJT
PARKE MOLDMATE, JIFFY TITE & JIFY MATIC

Temperature Range / Temperaturbereich

NBR (N) : -20°C + 100°C (- 4°F + 212°F)
FPM (V) : -20°C + 200°C (- 4°F + 392°F)

Working Pressure / Betriebsdruck

0 - 20 Bar (0 - 290 PSI)

Flow Capacity / Nenn Weite

NW – 6mm / 9mm / 16mm

Standard Version

Seals / Dichtung : FPM (V)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve/Hülse: Brass / Messing

Springs / Federn : Stainless Steel / Rostfreier Stahl

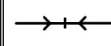
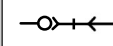
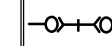
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

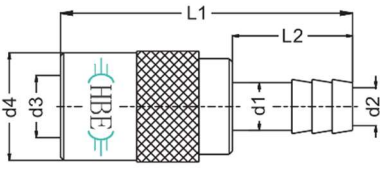
Plug / Nippel : Brass / Messing

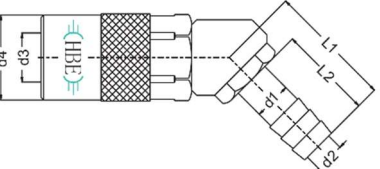


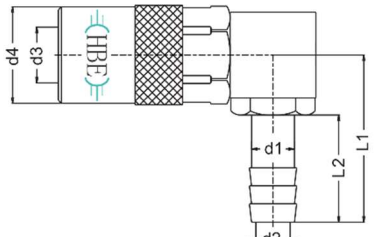
TEMPERATURE REGULATION SERIES

HBE 06 – 09 – 16 SERIES

	USA PROFILE QUICK COUPLINGS			
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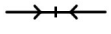
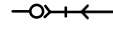
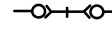
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 06 HGF 06	HBE 06 HGB 06	6	4	9	17	56	27
		HBE 06 HGF 08	HBE 06 HGB 08	8	6	9	17	56	27
		HBE 06 HGF 09	HBE 06 HGB 09	9	7	9	17	56	27
		HBE 06 HGF 10	HBE 06 HGB 10	10	8	9	17	56	27
	9	HBE 09 HGF 10	HBE 09 HGB 10	10	8	13	23	68	27
		HBE 09 HGF 11	HBE 09 HGB 11	11	9	13	23	68	27
		HBE 09 HGF 13	HBE 09 HGB 13	13	10	13	23	68	27
	16	HBE 16 HGF 16	HBE 16 HGB 16	16	13	20	32	94	36
		HBE 16 HGF 19	HBE 16 HGB 19	19	16	20	32	94	36

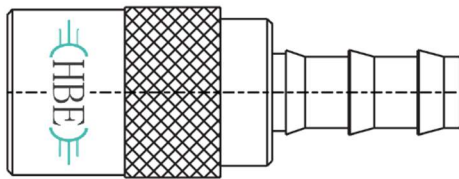
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 06 HGF 06-45	HBE 06 HGB 06-45	6	4	9	17	29	23
		HBE 06 HGF 08-45	HBE 06 HGB 08-45	8	6	9	17	29	23
		HBE 06 HGF 09-45	HBE 06 HGB 09-45	9	7	9	17	29	23
		HBE 06 HGF 10-45	HBE 06 HGB 10-45	10	8	9	17	29	23
	9	HBE 09 HGF 10-45	HBE 09 HGB 10-45	10	8	13	23	48	25
		HBE 09 HGF 11-45	HBE 09 HGB 11-45	11	9	13	23	48	25
		HBE 09 HGF 13-45	HBE 09 HGB 13-45	13	10	13	23	48	25
	16	HBE 16 HGF 16-45	HBE 16 HGB 16-45	16	13	20	32	71	27
		HBE 16 HGF 19-45	HBE 16 HGB 19-45	19	16	20	32	71	27

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	$\varnothing d_3$	$\varnothing d_4$	l_1	l_2
	6	HBE 06 HGF 06-90	HBE 06 HGB 06-90	6	4	9	17	33	23
		HBE 06 HGF 08-90	HBE 06 HGB 08-90	8	6	9	17	33	23
		HBE 06 HGF 09-90	HBE 06 HGB 09-90	9	7	9	17	33	23
		HBE 06 HGF 10-90	HBE 06 HGB 10-90	10	8	9	17	33	23
	9	HBE 09 HGF 10-90	HBE 09 HGB 10-90	10	8	13	23	39	25
		HBE 09 HGF 11-90	HBE 09 HGB 11-90	11	9	13	23	39	25
		HBE 09 HGF 13-90	HBE 09 HGB 13-90	13	10	13	23	39	25
	16	HBE 16 HGF 16-90	HBE 16 HGB 16-90	16	13	20	32	50	27
		HBE 16 HGF 19-90	HBE 16 HGB 19-90	19	16	20	32	50	27

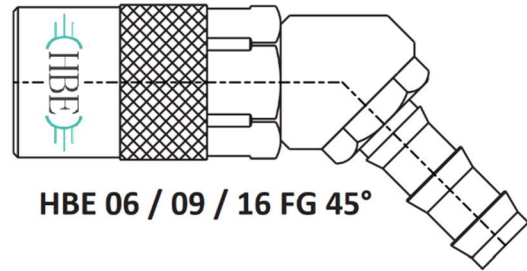
TEMPERATURE REGULATION SERIES

HBE 06 – 09 – 16 SERIES

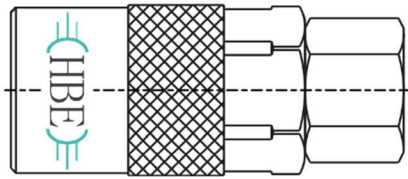
	USA PROFILE QUICK COUPLINGS			
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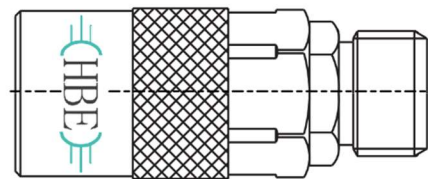
HBE 06 / 09 / 16 FG



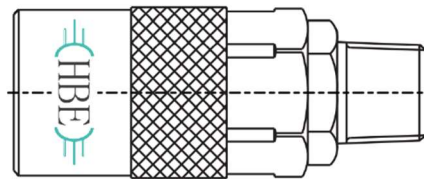
HBE 06 / 09 / 16 FG 45°



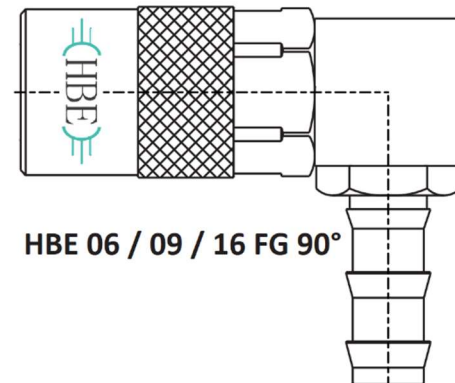
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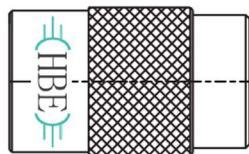
HBE 06 / 09 / 16 EG



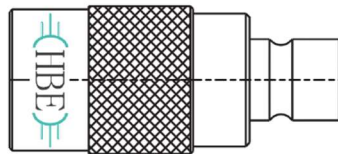
HBE 06 / 09 / 16 TG (NPT)



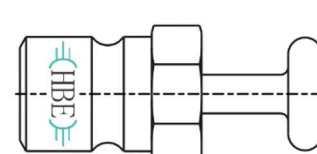
HBE 06 / 09 / 16 FG 90°



HBE 06 / 09 / 16 KTG

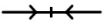
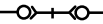


HBE 06 / 09 AU



HBE 06 / 09 / 16 KTU

HBE 070 SERIES

	WATER & HYDRAULIC QUICK COUPLINGS		
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COMPATIBLE / KOMPATIBEL

RECTUS 70 SERIES , PARKER 60 SERIES
HANSEN HK SERIES, ISO 7241-1 TYPE B

Temperature Range / Temperaturbereich

NBR (N) : -20°C +100°C (- 4°F + 210°F)
FPM (V) : -20°C +200°C (- 4°F + 390°F)
EPDM (E): -40°C +150°C (- 40°F + 300°F)

Working Pressure / Betriebsdruck

Max. 300 Bar

Flow Capacity / Nenn Weite

NW – from 4mm to 50mm

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve/Hülse: Brass / Messing

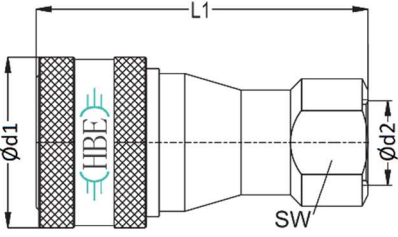
Springs / Federn : Stainless Steel / Rostfreier Stahl

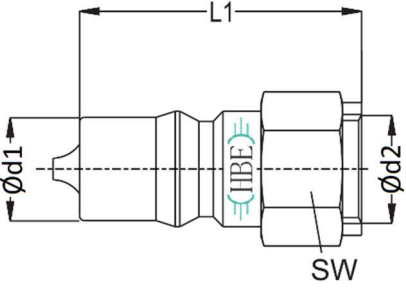
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

Plug / Nippel : Brass / Messing



HBE 070 SERIES

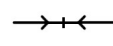
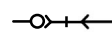
HYDRAULIC QUICK COUPLINGS							
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	l_1	SW
	4	HBE 070 DGF 10	HBE 070 DGB 10	BSP 1/8	24	49	14
	8	HBE 070 DGF 13	HBE 070 DGB 13	BSP 1/4	28	56	19
	10	HBE 070 DGF 17	HBE 070 DGB 17	BSP 3/8	34	64	22
	13	HBE 070 DGF 21	HBE 070 DGB 21	BSP 1/2	42	72	28
	16	HBE 070 DGF 26	HBE 070 DGB 26	BSP 3/4	52	94	34
	19	HBE 070 DGF 33	HBE 070 DGB 33	BSP 1	60	106	41
	32	HBE 070 DGF 42	HBE 070 DGB 42	BSP 1-1/4	70	114	60
	38	HBE 070 DGF 48	HBE 070 DGB 48	BSP 1-1/2	75	126	65
	50	HBE 070 DGF 60	HBE 070 DGB 60	BSP 2	105	142	90

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_2$	$\varnothing d_1$	l_1	SW
	4	HBE 070 DUF 10	HBE 070 DUB 10	BSP 1/8	11	30	14
	8	HBE 070 DUF 13	HBE 070 DUB 13	BSP 1/4	14	35	19
	10	HBE 070 DUF 17	HBE 070 DUB 17	BSP 3/8	19	39	22
	13	HBE 070 DUF 21	HBE 070 DUB 21	BSP 1/2	23	44	27
	16	HBE 070 DUF 26	HBE 070 DUB 26	BSP 3/4	31	60	36
	19	HBE 070 DUF 33	HBE 070 DUB 33	BSP 1	38	66	41
	32	HBE 070 DUF 42	HBE 070 DUB 42	BSP 1-1/4	41	108	60
	38	HBE 070 DUF 48	HBE 070 DUB 48	BSP 1-1/2	44	125	65
	50	HBE 070 DUF 60	HBE 070 DUB 60	BSP 2	63	142	90



TEMPERATURE REGULATION SERIES

HBE 100 SERIES

	FRENCH PROFILE QUICK COUPLINGS		
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COMPATIBLE / KOMPATIBEL
FRENCH CONNECTOR

Flow Capacity / Nenn Weite
NW – 6mm / 8.3mm / 13mm

Temperature Range / Temperaturbereich
NBR (N) : -15°C / +100°C (+5°F / +212°F)

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass Nickel Plated

Kupplungs Grundkörper : Messing Vernickelt

Sleeve/Hülse: Brass Nickel Plated / Messing Vernickelt

Springs / Federn : Stainless Steel / Rostfreier Stahl

Balls / Kugeln : Stainless Steel / Rostfreier Stahl

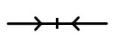
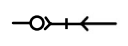
Plug / Nippel : Brass Nickel Plated / Messing Vernickelt

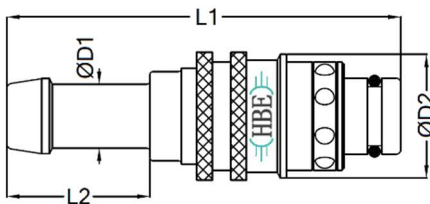
Working Pressure / Betriebsdruck
0 - 10 Bar (0 - 145 PSI)

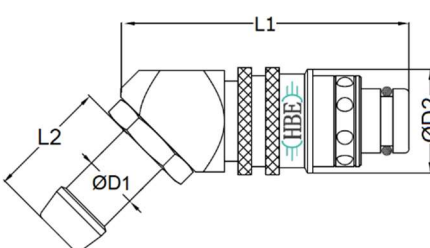


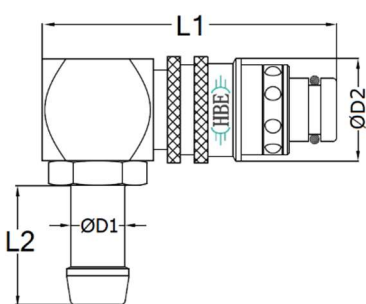
TEMPERATURE REGULATION SERIES

HBE 100 SERIES

	FRENCH PROFILE QUICK COUPLINGS		
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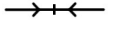
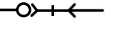
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L1	L2
	06	HBE 100.06 HGF 06	HBE 100.06 HGB 06	6	17	55	23
		HBE 100.06 HGF 08	HBE 100.06 HGB 08	8	17	55	23
	08	HBE 100.08 HGF 06	HBE 100.08 HGB 06	6	20	57	23
		HBE 100.08 HGF 08	HBE 100.08 HGB 08	8	20	62	23
		HBE 100.08 HGF 10	HBE 100.08 HGB 10	10	20	62	23
		HBE 100.08 HGF 12	HBE 100.08 HGB 12	12	20	66	23
		HBE 100.08 HGF 13	HBE 100.08 HGB 13	13	20	62	23
	12	HBE 100.12 HGF 13	HBE 100.12 HGB 13	13	28	76	33
		HBE 100.12 HGF 16	HBE 100.12 HGB 16	16	28	76	33
		HBE 100.12 HGF 19	HBE 100.12 HGB 19	19	28	76	33

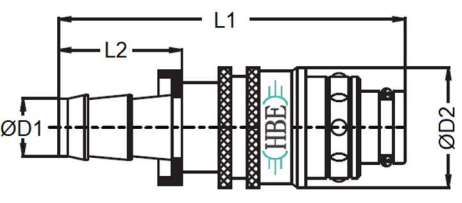
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L1	L2
	08	HBE 100.08 HGF 06-45	HBE 100.08 HGB 06-45	6	20	54,5	23
		HBE 100.08 HGF 08-45	HBE 100.08 HGB 08-45	8	20	54,5	23
		HBE 100.08 HGF 10-45	HBE 100.08 HGB 10-45	10	20	54,5	23
		HBE 100.08 HGF 12-45	HBE 100.08 HGB 12-45	12	20	54,5	23
		HBE 100.08 HGF 13-45	HBE 100.08 HGB 13-45	13	20	54,5	23
	12	HBE 100.12 HGF 13-45	HBE 100.12 HGB 13-45	13	28	64	33
		HBE 100.12 HGF 16-45	HBE 100.12 HGB 16-45	16	28	64	33
		HBE 100.12 HGF 19-45	HBE 100.12 HGB 19-45	19	28	64	33

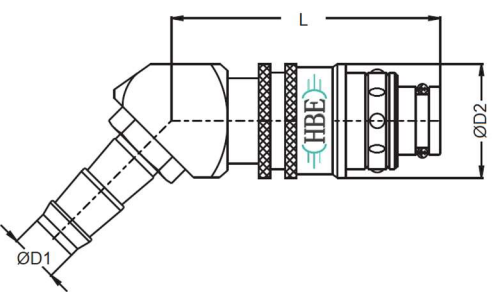
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L1	L2
	08	HBE 100.08 HGF 06-90	HBE 100.08 HGB 06-90	6	20	54,5	23
		HBE 100.08 HGF 08-90	HBE 100.08 HGB 08-90	8	20	54,5	23
		HBE 100.08 HGF 10-90	HBE 100.08 HGB 10-90	10	20	54,5	23
		HBE 100.08 HGF 12-90	HBE 100.08 HGB 12-90	12	20	54,5	23
		HBE 100.08 HGF 13-90	HBE 100.08 HGB 13-90	13	20	54,5	23
	12	HBE 100.12 HGF 13-90	HBE 100.12 HGB 13-90	13	28	64	33
		HBE 100.12 HGF 16-90	HBE 100.12 HGB 16-90	16	28	64	33
		HBE 100.12 HGF 19-90	HBE 100.12 HGB 19-90	19	28	64	33

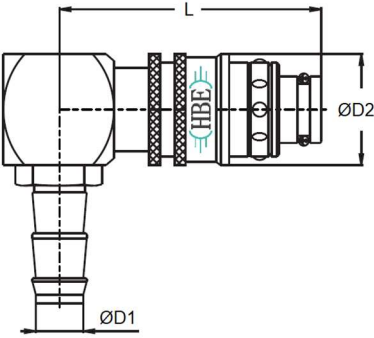
TEMPERATURE REGULATION SERIES

HBE 100 SERIES

	FRENCH PROFILE QUICK COUPLINGS		
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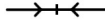
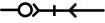
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing D1$	$\varnothing D2$	L1	L2
	08	HBE 100.08 FGF 10	HBE 100.08 FGB 10	10	20	62	24
		HBE 100.08 FGF 13	HBE 100.08 FGB 13	13	20	69	28
	12	HBE 100.12 FGF 13	HBE 100.12 FGB 13	13	28	72	28
		HBE 100.12 FGF 16	HBE 100.12 FGB 16	16	28	82	38

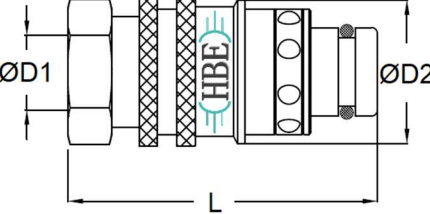
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing D1$	$\varnothing D2$	L
	08	HBE 100.08 FGF 10-45	HBE 100.08 FGB 10-45	10	20	46
		HBE 100.08 FGF 13-45	HBE 100.08 FGB 13-45	13	20	46
	12	HBE 100.12 FGF 13-45	HBE 100.12 FGB 13-45	13	28	54
		HBE 100.12 FGF 16-45	HBE 100.12 FGB 16-45	16	28	54

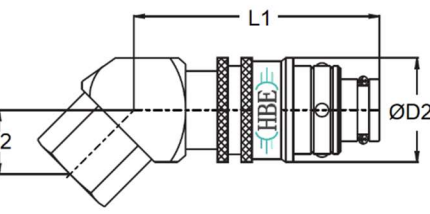
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing D1$	$\varnothing D2$	L
	08	HBE 100.08 FGF 10-90	HBE 100.08 FGB 10-90	10	20	46
		HBE 100.08 FGF 13-90	HBE 100.08 FGB 13-90	13	20	46
	12	HBE 100.12 FGF 13-90	HBE 100.12 FGB 13-90	13	28	54
		HBE 100.12 FGF 16-90	HBE 100.12 FGB 16-90	16	28	54

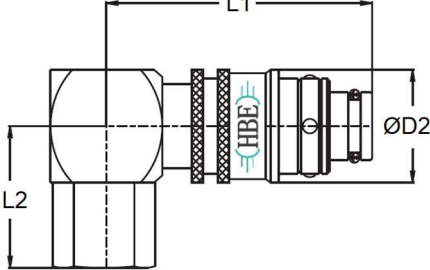
TEMPERATURE REGULATION SERIES

HBE 100 SERIES

	FRENCH PROFILE QUICK COUPLINGS		
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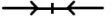
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L	SW
	08	HBE 100.08 DGF 13	HBE 100.08 DGB 13	BSP 1/4	20	44	17
		HBE 100.08 NGF 13	HBE 100.08 NGB 13	NPT 1/4	20	50	17
		HBE 100.08 DGF 17	HBE 100.08 DGB 17	BSP 3/8	20	52	19
		HBE 100.08 NGF 17	HBE 100.08 NGB 17	NPT 3/8	20	52	19
	12	HBE 100.12 FGF 17	HBE 100.12 FGB 17	BSP 3/8	28	60	22
		HBE 100.12 NGF 17	HBE 100.12 NGB 17	NPT 3/8	28	60	22
		HBE 100.12 FGF 21	HBE 100.12 FGB 21	BSP 1/2	28	60	22
		HBE 100.12 NGF 21	HBE 100.12 NGB 21	NPT 1/2	28	62	24

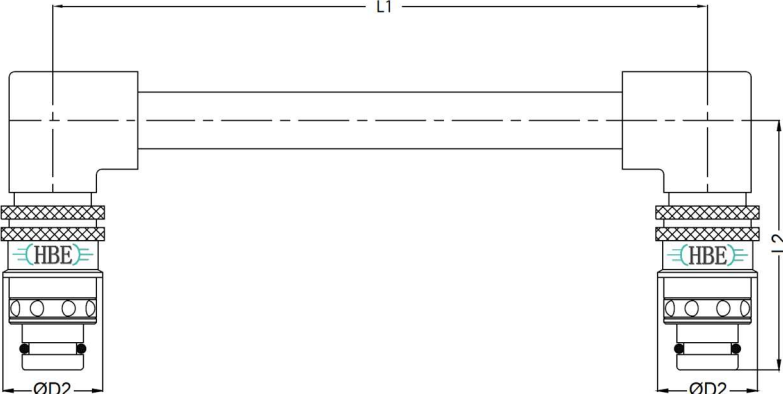
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L1	L2
	08	HBE 100.08 DGF 13-45	HBE 100.08 DGB 13-45	BSP 1/4	20	45	14
		HBE 100.08 NGF 13-45	HBE 100.08 NGB 13-45	NPT 1/4	20	45	14
		HBE 100.08 DGF 17-45	HBE 100.08 DGB 17-45	BSP 3/8	20	45	14
		HBE 100.08 NGF 17-45	HBE 100.08 NGB 17-45	NPT 3/8	20	45	16
	12	HBE 100.12 FGF 17-45	HBE 100.12 FGB 17-45	BSP 3/8	28	54	15
		HBE 100.12 NGF 17-45	HBE 100.12 NGB 17-45	NPT 3/8	28	54	17
		HBE 100.12 FGF 21-45	HBE 100.12 FGB 21-45	BSP 1/2	28	54	20
		HBE 100.12 NGF 21-45	HBE 100.12 NGB 21-45	NPT 1/2	28	54	22

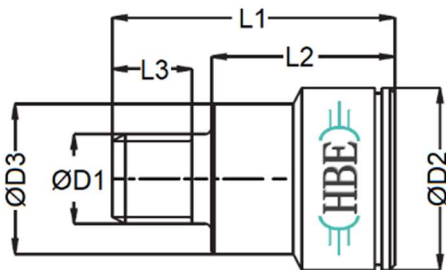
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	Order No / Bestell Nr. With Valve / Mit Ventil	ØD1	ØD2	L1	L2
	08	HBE 100.08 DGF 13-90	HBE 100.08 DGB 13-90	BSP 1/4	20	45	24
		HBE 100.08 NGF 13-90	HBE 100.08 NGB 13-90	NPT 1/4	20	45	25
		HBE 100.08 DGF 17-90	HBE 100.08 DGB 17-90	BSP 3/8	20	45	24
		HBE 100.08 NGF 17-90	HBE 100.08 NGB 17-90	NPT 3/8	20	45	27
	12	HBE 100.12 FGF 17-90	HBE 100.12 FGB 17-90	BSP 3/8	28	54	29
		HBE 100.12 NGF 17-90	HBE 100.12 NGB 17-90	NPT 3/8	28	54	32
		HBE 100.12 FGF 21-90	HBE 100.12 FGB 21-90	BSP 1/2	28	54	37
		HBE 100.12 NGF 21-90	HBE 100.12 NGB 21-90	NPT 1/2	28	54	39

TEMPERATURE REGULATION SERIES

HBE 100 SERIES

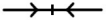
	FRENCH PROFILE QUICK COUPLINGS	
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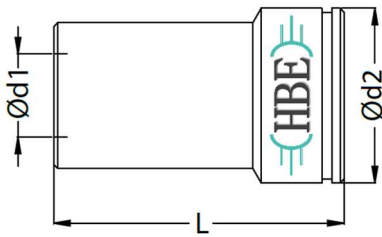
Socket / Kupplung	Size / Größe	Order No / Bestell Nr.	ØD2	L1	L2
	08	HBE 100.08 KGF 125	20	125	45
		HBE 100.08 KGF 250	20	250	45
		HBE 100.08 KGF 500	20	500	45
	12	HBE 100.12 KGF 125	28	125	73
		HBE 100.12 KGF 250	28	250	73
		HBE 100.12 KGF 500	28	500	73

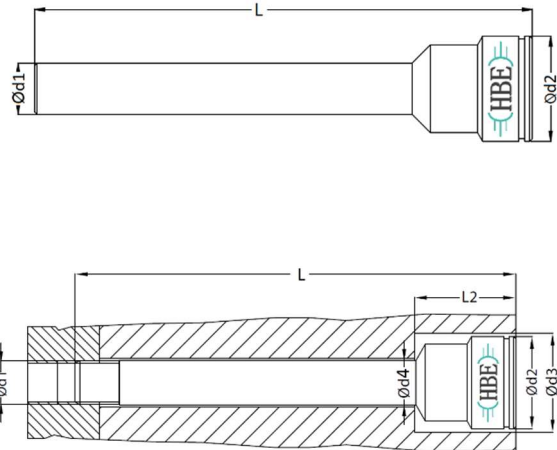
Socket / Busche	Size / Größe	Order No / Bestell Nr.	ØD1	ØD2	ØD3	L1	L2	L3	SW
	06	HBE 100.06 RUF 10	BSPT 1/8	17	14	29	19	10	6
		HBE 100.06 RUF 13	BSPT 1/4	17	14	31	19	12	6
		HBE 100.06 TUF 10	NPT 1/8	17	14	29	19	10	6
		HBE 100.06 TUF 13	NPT 1/4	17	14	35	19	13	6
		HBE 100.06 EUF M10	M10x1.0	17	14	29	19	10	6
	08	HBE 100.08 RUF 10	BSPT 1/8	21	18	31	21	10	6
		HBE 100.08 RUF 13	BSPT 1/4	21	18	33	21	10	8
		HBE 100.08 RUF 17	BSPT 3/8	21	18	24	11	10	8
		HBE 100.08 TUF 10	NPT 1/8	21	18	31	21	10	1/4
		HBE 100.08 TUF 13	NPT 1/4	21	18	33	21	10	5/16
		HBE 100.08 TUF 17	NPT 3/8	21	18	24	11	10	5/16
		HBE 100.08 EUF M10	M10x1.0	21	18	31	21	10	6
		HBE 100.08 EUF M1015	M10x1.5	21	18	31	21	10	6
		HBE 100.08 EUF M14	M14x1.5	21	18	31	21	10	8
	12	HBE 100.12 RUF 17	BSPT 3/8	32	24	41	28	13	10
		HBE 100.12 RUF 21	BSPT 1/2	32	24	44	28	16	14
		HBE 100.12 RUF 26	BSPT 3/4	32	24	32	13	19	14
		HBE 100.12 TUF 17	NPT 3/8	32	24	41	28	13	10
		HBE 100.12 TUF 21	NPT 1/2	32	24	46	28	18	14
		HBE 100.12 TUF 26	NPT 3/4	32	24	32	13	19	14

TEMPERATURE REGULATION SERIES

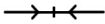
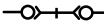
HBE 100 SERIES

	FRENCH PROFILE QUICK COUPLINGS	
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Socket / Busche	Size / Größe	Order No / Bestell Nr.	$\varnothing d1$	$\varnothing d2$	L	SW
	06	HBE 100.06 DUF 10	BSP 1/8	17	32	6
		HBE 100.06 NUF 10	NPT 1/8	17	33	6
	08	HBE 100.08 DUF 10	BSP 1/8	21	35	6
		HBE 100.08 DUF 13	BSP 1/4	21	39	8
		HBE 100.08 NUF 10	NPT 1/8	21	35	6
		HBE 100.08 NUF 13	NPT 1/4	21	39	8
	12	HBE 100.12 DUF 17	BSP 3/8	32	49	12
		HBE 100.12 DUF 21	BSP 1/2	32	50	12

Socket / Busche	Size / Größe	Order No / Bestell Nr.	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing D4$	L	L2	SW
	06	HBE 100.06 BUF 10-100	1/8	17	19	11	33-100	20	6
		HBE 100.08 BUF 10-100	1/8	21	23	11	33-100	23	6
	08	HBE 100.08 BUF 10-150	1/8	21	23	11	100-150	23	6
		HBE 100.08 BUF 10-200	1/8	21	23	11	150-200	23	6
		HBE 100.08 BUF 10-250	1/8	21	23	11	200-250	23	6
		HBE 100.08 BUF 13-100	1/4	21	23	14	34-100	23	8
		HBE 100.08 BUF 13-150	1/4	21	23	14	100-150	23	8
		HBE 100.08 BUF 13-200	1/4	21	23	14	150-200	23	8
		HBE 100.08 BUF 13-250	1/4	21	23	14	200-250	23	8
	12	HBE 100.12 BUF 17-150	3/8	32	34	18	59-150	43	14
		HBE 100.12 BUF 17-200	3/8	32	34	18	150-200	43	14
		HBE 100.12 BUF 17-250	3/8	32	34	18	200-250	43	14
		HBE 100.12 BUF 21-150	1/2	32	34	22	59-150	45	14
		HBE 100.12 BUF 21-200	1/2	32	34	22	150-200	45	14
		HBE 100.12 BUF 21-250	1/2	32	34	22	200-250	45	14

HBE 120 SERIES

	PNEUMATIC AND WATER QUICK COUPLINGS		
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COMPATIBLE / KOMPATIBEL

RECTUS 42 SERIES ,
ABA 3/4"

Flow Capacity / Nenn Weite

NW – 11

Temperature Range / Temperaturbereich

NBR (N) : -20°C +100°C (- 4°F + 210°F)

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass

Kupplungs Grundkörper : Messing

Sleeve/Hülse: Brass / Messing

Springs / Federn : Stainless Steel / Rostfreier Stahl

Balls / Kugeln : Stainless Steel / Rostfreier Stahl

Plug / Nippel : Brass / Messing

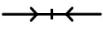
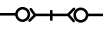
Working Pressure / Betriebsdruck

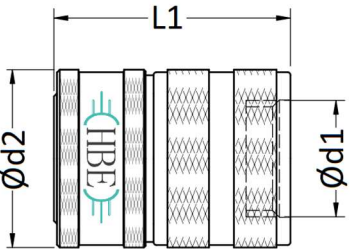
Max. 35 Bar

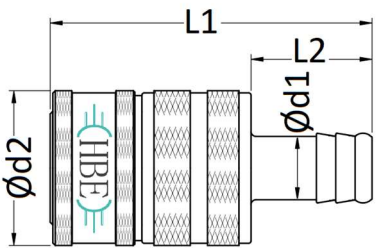
(Max. 500 PSI)

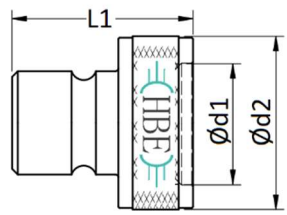


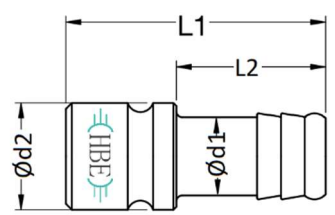
HBE 120 SERIES

	PNEUMATIC AND WATER QUICK COUPLINGS		
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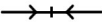
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. With Valve / Mit Ventil	$\varnothing d_1$	$\varnothing d_2$	L_1
	11	HBE 120 DGB 26	BSP 3/4	32	43
		Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L_1
		HBE 120 DGF 21	BSP 1/2	32	34
		HBE 120 DGF 26	BSP 3/4	32	34

Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L_1	L_2
	11	HBE 120 HGF 09	9	32	55	23
		HBE 120 HGF 13	13	32	55	23
		HBE 120 HGF 16	16	32	55	23
		HBE 120 HGF 19	19	32	55	23

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L_1
	11	HBE 120 DUF 13	BSP 1/4	20	30
		HBE 120 DUF 17	BSP 3/8	20	30
		HBE 120 DUF 21	BSP 1/2	24	30
		HBE 120 DUF M22	M22x1,5	25	30
		HBE 120 DUF 26	BSP 3/4	30	30

Plug / Nippel	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L_1	L_2
	11	HBE 120 HUF 09	9	19	47	23
		HBE 120 HUF 13	13	19	47	23
		HBE 120 HUF 16	16	19	47	23
		HBE 120 HUF 19	19	21	50	27

HBE 160 SERIES

	PNEUMATIC QUICK COUPLINGS	
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COMPATIBLE / KOMPATIBEL

DYROS 2000

Temperature Range / Temperaturbereich

NBR (N) : -20°C +100°C (- 4°F + 210°F)

Working Pressure / Betriebsdruck

Max. 25 Bar

(Max. 360 PSI)

Flow Capacity / Nenn Weite

NW – 16

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass chrome plated

Kupplungs Grundkörper : Messing verchromt

Sleeve/Hülse: Brass chrome plated / Messing verchromt

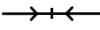
Springs / Federn : Stainless Steel / Rostfreier Stahl

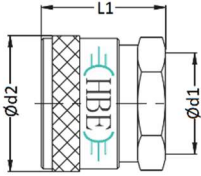
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

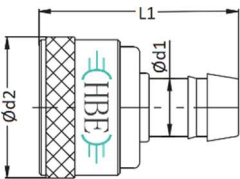
Plug / Nippel : Brass chrome plated / Messing verchromt

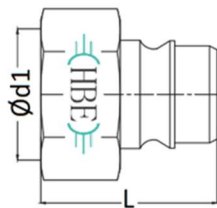


HBE 160 SERIES

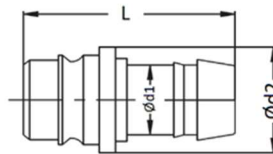
	PNEUMATIC QUICK COUPLINGS	
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Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L1
	16	HBE 160 DGF 26	BSP 3/4	35	32

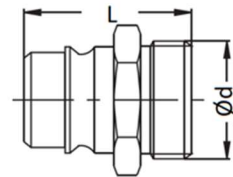
Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing d_1$	$\varnothing d_2$	L1
	16	HBE 160 HGF 19	19	35	55



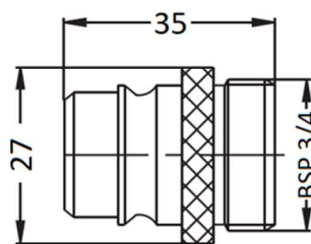
Part No.	Con.	$\varnothing d_1$	L
HBE 160 DUF 26	BSP 3/4	30	35



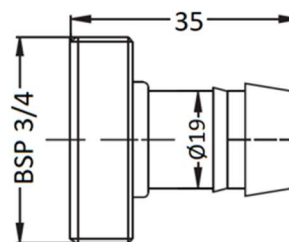
Part No.	$\varnothing d_1$	$\varnothing d_2$	L
HBE 160 HUF 13	13	22	47
HBE 160 HUF 19	19	22	50



Part No.	$\varnothing d_1$	L	SW
HBE 160 EUF 26	BSP 3/4	35	27

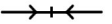


HBE 160 EUF 26-01



HBE 160 GUF 19

HBE 161 SERIES

	PNEUMATIC QUICK COUPLINGS	
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COMPATIBLE / KOMPATIBEL

DYROS 2000

Temperature Range / Temperaturbereich

NBR (N) : -20°C +100°C (- 4°F + 210°F)

Working Pressure / Betriebsdruck

Max. 25 Bar

(Max. 360 PSI)

Flow Capacity / Nenn Weite

NW – 20

Standard Version

Seals / Dichtung : NBR (N)

Socket Body : Brass chrome plated

Kupplungs Grundkörper : Messing verchromt

Sleeve/Hülse: Brass chrome plated / Messing verchromt

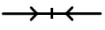
Springs / Federn : Stainless Steel / Rostfreier Stahl

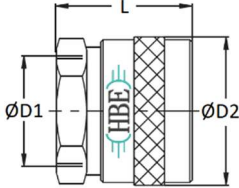
Balls / Kugeln : Stainless Steel / Rostfreier Stahl

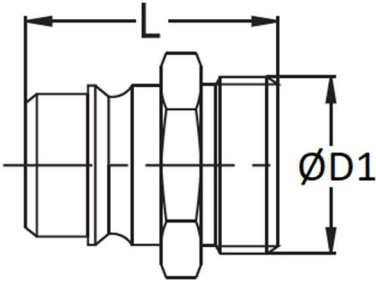
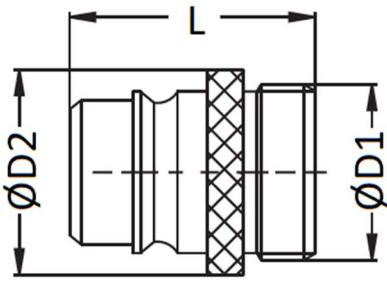
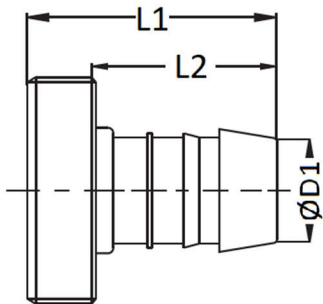
Plug / Nippel : Brass chrome plated / Messing verchromt

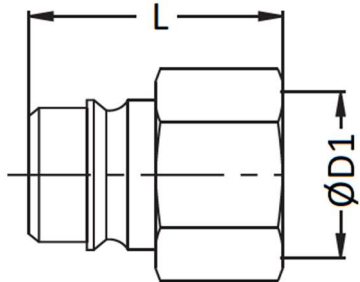
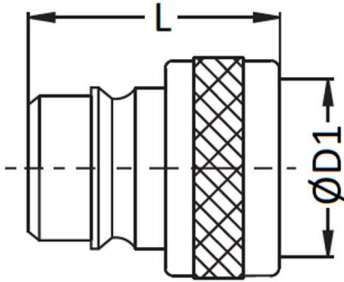
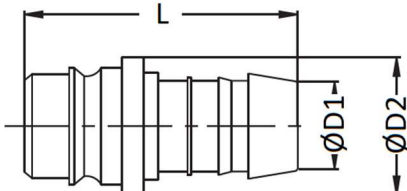


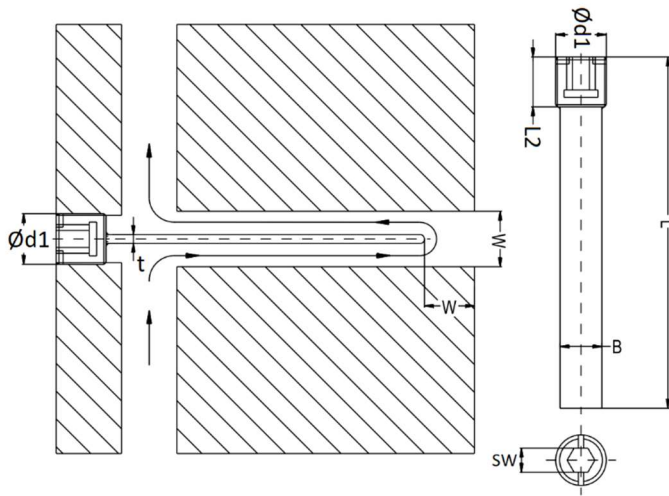
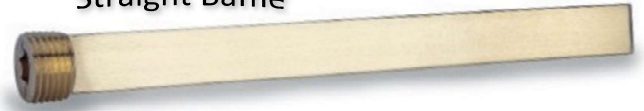
HBE 161 SERIES

	PNEUMATIC QUICK COUPLINGS	
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Socket / Kupplung	Size / Größe	Order No / Bestell Nr. Without Valve / Ohne Ventil	$\varnothing D_1$	$\varnothing D_2$	L
	20	HBE 161 DGF 33	BSP 1"	35	32

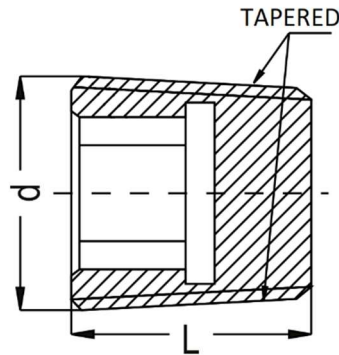
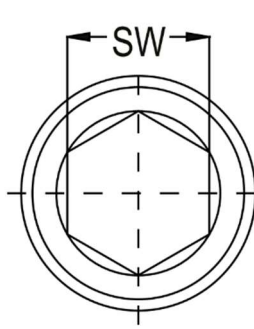
with male thread (HEX)				with male thread				with plastic hose tail			
											
Part No:	$\varnothing D_1$	L	SW	Part No:	$\varnothing D_1$	L	$\varnothing D_2$	Part No:	$\varnothing D_1$	L1	L2
HBE 161 EUF 33	BSP 1"	42	36	HBE 161 EUF 33-01	BSP 1"	41	42	HBE 161 GU 25	25	44	32

with female thread (HEX)				with female thread				with standard hose tail			
											
Part No:	$\varnothing D_1$	L	SW	Part No:	$\varnothing D_1$	L	SW	Part No:	$\varnothing D_1$	$\varnothing D_2$	L
HBE 161 DUF 33	BSP 1"	40	36	HBE 161 DUF 33-01	BSP 1"	40	36	HBE 161 HUF 19	19	30	64
								HBE 161 HUF 25	25	35	64


Straight Baffle

Helical Baffle


Spiral Blade Plug Baffles /
Temperierelemente mit Spiralkern
Material : MS58 Brass / Messing

Order No / Bestell Nr.		Ød1	L	L2	B	t	SW	W
Straight Baffle	Helical Baffle							
HSB 10-100	HHB 10-100	BSP 1/8	100	8	8,5	1,6	5	8,5
HSB 10-200	HHB 10-200	BSP 1/8	200	8	8,5	1,6	5	8,5
HSB 13-125	HHB 13-125	BSP 1/4	125	10	11,5	2,4	7	11,5
HSB 13-250	HHB 13-250	BSP 1/4	250	10	11,5	2,4	7	11,5
HSB 17-150	HHB 17-150	BSP 3/8	150	10	15	2,4	8	15
HSB 17-300	HHB 17-300	BSP 3/8	300	10	15	2,4	8	15
HSB 21-200	HHB 21-200	BSP 1/2	200	10	18,5	2,4	10	18,5
HSB 21-400	HHB 21-400	BSP 1/2	400	10	18,5	2,4	10	18,5
HSB 26-300	HHB 26-300	BSP 3/4	300	12	23,5	3,2	12	23,5
HSB 26-500	HHB 26-500	BSP 3/4	500	12	23,5	3,2	12	23,5
HSB 33-400	HHB 33-400	BSP 1	400	16	28	3,2	12	28
HSB 33-600	HHB 33-600	BSP 1	600	16	28	3,2	12	28
HSBM 0875-100	HHBM 0875-100	M8x0,75	100	8	6	1,6	4	6
HSBM 0875-200	HHBM 0875-200	M8x0,75	200	8	6	1,6	4	6
HSBM 10-100	HHBM 10-100	M10x1	100	8	8	1,6	5	8
HSBM 10-200	HHBM 10-200	M10x1	200	8	8	1,6	5	8
HSBM 12-125	HHBM 12-125	M12x1,5	125	8	10	2,4	6	10
HSBM 12-250	HHBM 12-250	M12x1,5	250	8	10	2,4	6	10
HSBM 14-150	HHBM 14-150	M14x1,5	150	10	12	2,4	6	12
HSBM 14-300	HHBM 14-300	M14x1,5	300	10	12	2,4	6	12
HSBM 16-150	HHBM 16-150	M16x1,5	150	10	14	2,4	8	14
HSBM 16-300	HHBM 16-300	M16x1,5	300	10	14	2,4	8	14
HSBM 18-150	HHBM 18-150	M18x1,5	150	10	16	2,4	8	16
HSBM 18-300	HHBM 18-300	M18x1,5	300	10	16	2,4	8	16
HSBM 20-150	HHBM 20-150	M20x1,5	150	10	18	2,4	10	18
HSBM 20-300	HHBM 20-300	M20x1,5	300	10	18	2,4	10	18
HSBM 2420-150	HHBM 2420-150	M24x2	150	12	20	3,2	12	20
HSBM 2420-300	HHBM 2420-300	M24x2	300	12	20	3,2	12	20



⇒ BSPT TYPE

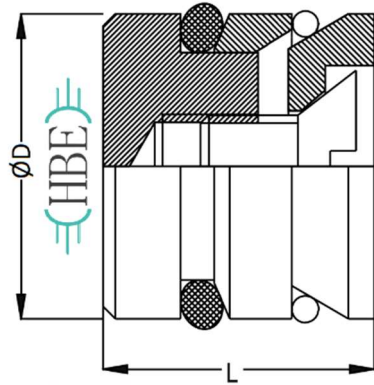
BRASS / MESSING				STEEL / STAHL				STAINLESS STEEL/EDELSTAHL			
Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW
HKTR 10	BSPT 1/8"	8	5	HKTR 10C	BSPT 1/8"	8	5	HKTR 10S	BSPT 1/8"	8	5
HKTR 13	BSPT 1/4"	10	7	HKTR 13C	BSPT 1/4"	10	6	HKTR 13S	BSPT 1/4"	10	7
HKTR 17	BSPT 3/8"	10	8	HKTR 17C	BSPT 3/8"	11	8	HKTR 17S	BSPT 3/8"	10	8
HKTR 21	BSPT 1/2"	10	10	HKTR 21C	BSPT 1/2"	13	10	HKTR 21S	BSPT 1/2"	10	10
HKTR 26	BSPT 3/4"	12	12	HKTR 26C	BSPT 3/4"	17	12	HKTR 26S	BSPT 3/4"	12	12
HKTR 33	BSPT 1"	12	17	HKTR 33C	BSPT 1"	19	17	HKTR 33S	BSPT 1"	12	17
HKTR 42	BSPT 1 1/4"	18	22	HKTR 42C	BSPT 1 1/4"	22	22	HKTR 42S	BSPT 1 1/4"	18	22
HKTR 48	BSPT 1 1/2"	20	24	HKTR 48C	BSPT 1 1/2"	22	24	HKTR 48S	BSPT 1 1/2"	20	24

⇒ NPT TYPE

BRASS / MESSING				STEEL / STAHL				STAINLESS STEEL/EDELSTAHL			
Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW
HKTN 10	NPT 1/8"	8	5	HKTN 10C	NPT 1/8"	8	5	HKTN 10S	NPT 1/8"	8	5
HKTN 13	NPT 1/4"	10	7	HKTN 13C	NPT 1/4"	10	6	HKTN 13S	NPT 1/4"	10	6
HKTN 17	NPT 3/8"	10	8	HKTN 17C	NPT 3/8"	10	8	HKTN 17S	NPT 3/8"	10	8
HKTN 21	NPT 1/2"	12	10	HKTN 21C	NPT 1/2"	12	10	HKTN 21S	NPT 1/2"	12	10
HKTN 26	NPT 3/4"	17	12	HKTN 26C	NPT 3/4"	17	12	HKTN 26S	NPT 3/4"	17	12
HKTN 33	NPT 1"	19	17	HKTN 33C	NPT 1"	19	17	HKTN 33S	NPT 1"	19	17
HKTN 42	NPT 1 1/4"	22	22	HKTN 42C	NPT 1 1/4"	22	22	HKTN 42S	NPT 1 1/4"	22	22
HKTN 48	NPT 1 1/2"	22	24	HKTN 48C	NPT 1 1/2"	22	24	HKTN 48S	NPT 1 1/2"	22	24

⇒ METRIC TYPE

BRASS / MESSING				STEEL / STAHL				STAINLESS STEEL/EDELSTAHL			
Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW	Order No Bestell Nr	d	L	SW
HKTM 8	M8x0,75	8	4	HKTM 8C	M8x0,75	8	4	HKTM 8S	M8x0,75	8	4
HKTM 10	M10x1	8	5	HKTM 10C	M10x1	8	5	HKTM 10S	M10x1	8	5
HKTM 12	M12x1,5	8	6	HKTM 12C	M12x1,5	8	6	HKTM 12S	M12x1,5	8	6
HKTM 14	M14x1,5	10	7	HKTM 14C	M14x1,5	10	6	HKTM 14S	M14x1,5	10	7
HKTM 16	M16x1,5	10	8	HKTM 16C	M16x1,5	10	8	HKTM 16S	M16x1,5	10	8
HKTM 24	M24x1,5	12	12	HKTM 24C	M24x1,5	12	12	HKTM 24S	M24x1,5	12	12



Material : Brass / Messing (MS58)

O-Ring : Viton

Max. Working Temp. : 200°C

Order No Bestell Nr	d	L
HDKT 06	6	10
HDKT 07	7	10
HDKT 08	8	10
HDKT 8,5	8,5	10
HDKT 10	10	11
HDKT 11,5	11,5	11
HDKT 12	12	11
HDKT 14	14	13
HDKT 15	15	13
HDKT 16	16	13
HDKT 20	20	13
HDKT 22	22	13



Ød	Hose Tail	Part No	SW	L
M6	4 mm	HSM 06/04	8	18
	4 mm	HSG 10/04	11	28
G 1/8"	6 mm	HSG 10/06	11	28
	8 mm	HSG 10/08	11	28
	9 mm	HSG 10/09	11	28
G 1/4"	4 mm	HSG 13/04	15	31
	6 mm	HSG 13/06	15	31
	8 mm	HSG 13/08	15	31
	9 mm	HSG 13/09	15	31
	10 mm	HSG 13/10	15	37
	13 mm	HSG 13/13	15	37
G 3/8"	6 mm	HSG 17/06	17	31
	8 mm	HSG 17/08	17	31
	9 mm	HSG 17/09	17	31
	10 mm	HSG 17/10	17	37
	13 mm	HSG 17/13	17	37
	16 mm	HSG 17/16	19	37
G 1/2"	6 mm	HSG 21/06	22	34
	8 mm	HSG 21/08	22	34
	9 mm	HSG 21/09	22	34
	10 mm	HSG 21/10	22	40
	13 mm	HSG 21/13	22	40
	16 mm	HSG 21/16	22	46
	19 mm	HSG 21/19	22	46
G 3/4"	13 mm	HSG 26/13	27	45
	16 mm	HSG 26/16	27	49
	19 mm	HSG 26/19	27	49
	25 mm	HSG 26/25	30	54
G 1"	19 mm	HSG 33/19	36	49
	25 mm	HSG 33/25	36	54

Metric Series : HSM



Ød	Hose Tail	Part No	SW	L
G 1/8"	6 mm	HDH 10/06	11	27
	8 mm	HDH 10/08	11	27
	9 mm	HDH 10/09	11	27
G 1/4"	6 mm	HDH 13/06	17	30
	8 mm	HDH 13/08	17	30
	9 mm	HDH 13/09	17	30
	10 mm	HDH 13/10	17	36
	13 mm	HDH 13/13	17	36
G 3/8"	6 mm	HDH 17/06	19	30
	8 mm	HDH 17/08	19	30
	9 mm	HDH 17/09	19	30
	10 mm	HDH 17/10	19	36
	13 mm	HDH 17/13	19	36
G 1/2"	6 mm	HDH 21/16	24	30
	8 mm	HDH 21/16	24	30
	9 mm	HDH 21/16	24	30
	10 mm	HDH 21/16	24	36
	13 mm	HDH 21/16	24	36
	16 mm	HDH 21/16	24	43



Connection	Part No	SW	L
M5	HAR 05	7	10
G 1/8"	HAR 10	14	22
G 1/4"	HAR 13	17	26
G 3/8"	HAR 17	19	26
G 1/2"	HAR 21	24	30
G 3/4"	HAR 26	32	36
G 1"	HAR 33	41	36



Male	Female	Part No	SW	L
G 1/8"	M5	HKD 05/10	11	11
	M5	HKD 05/13	17	11
G 1/4"	G 1/8"	HKD 10/13	15	13
G 3/8"	G 1/8"	HKD 10/17	19	14
G 1/2"	G 1/8"	HKD 10/21	22	18
G 3/8"	G 1/4"	HKD 13/17	19	13
G 1/2"	G 1/4"	HKD 13/21	22	18
	G 3/8"	HKD 17/21	22	18
G 3/4"	G 3/8"	HKD 17/26	27	18
	G 1/2"	HKD 21/26	27	24
G 1"	G 1/2"	HKD 21/33	36	24
	G 3/4"	HKD 26/33	36	30



Male	Male	Part No	SW	L
G 1/8"	G 1/8"	HEE 10/10	11	18
	G 3/8"	HEE 10/17	19	22
	G 1/4"	HEE 13/13	17	23
G 1/4"	G 3/8"	HEE 13/17	19	24
	G 1/2"	HEE 13/21	22	27
G 3/8"	G 3/8"	HEE 17/17	19	24
	G 1/2"	HEE 17/21	22	27
	G 3/4"	HEE 17/26	27	33
G 1/2"	G 1/2"	HEE 21/21	22	30
	G 3/4"	HEE 21/26	27	36
	G 1"	HEE 21/33	36	39
G 3/4"	G 3/4"	HEE 26/26	27	40
	G 1"	HEE 26/33	36	43
G 1"	G 1"	HEE 33/33	41	46



Male	Female	Part No	SW	L
M5	M5	HBD 05/05	8	12
	G 1/8"	HBD 05/10	13	15
	M5	HBD 10/05	13	15
G 1/8"	G 1/8"	HBD 10/10	13	18
	G 1/4"	HBD 10/13	17	19
	G 1/8"	HBD 13/10	17	18
G 1/4"	G 1/4"	HBD 13/13	17	21
	G 3/8"	HBD 13/17	19	21
	G 1/4"	HBD 17/13	17	21
G 3/8"	G 3/8"	HBD 17/17	19	21
	G 1/2"	HBD 17/21	24	24
	G 3/8"	HBD 21/17	22	24
G 1/2"	G 1/2"	HBD 21/21	24	25
	G 3/4"	HBD 21/26	32	31





Temperature Range – Temperaturbereich : -50°C / +400°C (-58°C / +752°F)

Max. Working Pressure – Max. Betriebsdruck : 40 bar (580 Psi)

EXAMPLE CODE: H117 06 ACE G 17 G33 - 263 B

Holes number of one surface

Surfaces that the holes are existing

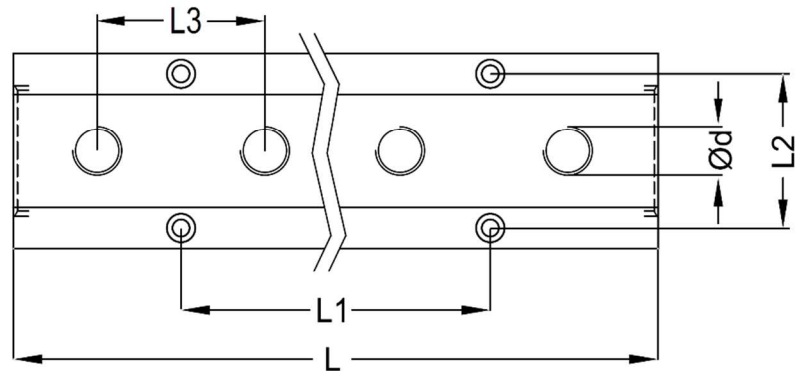
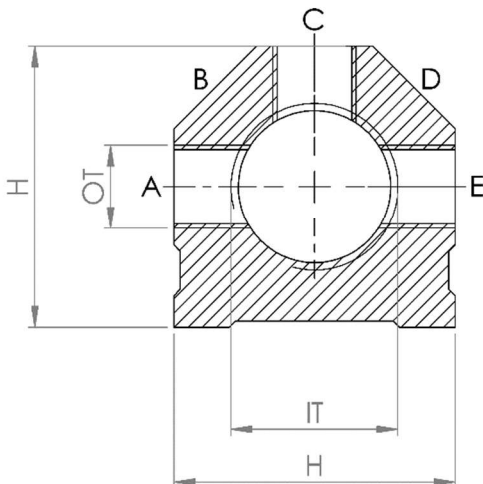
Outlet Thread Type (BSP=G , BSPT=Q or NPT=N)

Outlet Thread Size

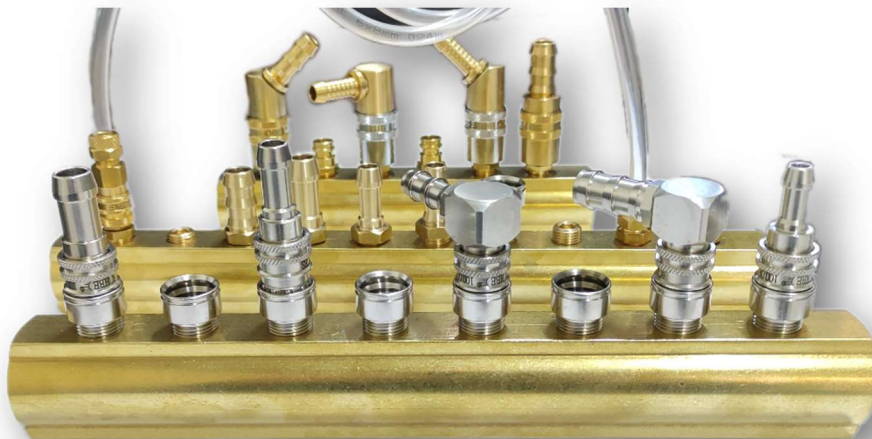
Inlet (BSP=G , BSPT=Q or NPT=N)

Total Length (mm.)

Colour: Blue=B or Red=R



IT Inlet Thread Einlass Schraubengröße	OT Outer Thread Größe der Auslassschraube	Number Of Holes On One Surface	L (mm)										L1 (mm)										L2 (mm)	L3 (mm)	H (mm)	
			A	B	C	AC	BD	ACE	ABC	BCD	ABCDE	A	B	C	AC	BD	ACE	ABC	BCD	ABCDE						
3/4"	1/4"	2	74										0										35	31	44.5	
		4	132										62													
		6	194										124													
		8	256										186													
	3/8"	2	90					110					0					0					35	40	44.5	
		4	165					190					80					100								
		6	245					270					160					180								
		8	325					350					240					260								
1"	1/4"	2	103										0										38	40	51	
		4	183										80													
		6	263										160													
		8	343										240													
	3/8"	2	103					123					0					0					38	40	51	
		4	183					210					80					100								
		6	263					290					160					180								
		8	343					370					240					260								
1-1/4"	1/4"	2	152										0										50	51	66	
	3/8"	4	254										101.6													
	1/2"	6	355										203.2													
	1/2"	8	457										304.8													
1-1/2"	1/4"	2	152										0										57	51	76	
		3/8"	4	254										101.6												
		1/2"	6	355										203.2												
		1/2"	8	457										304.8												
	3/4"	2	164.5					164.5					0					0					50	63.5	76	
		4	270					354.5					101.6					191								
		6	417.5					481.5					254					318								
		8	554.5					608.5					381					445								
2"	3/8"	2	178										0										72.5	63.5	89	
	1/2"	4	305										127													
	3/4"	6	432										254													
	3/4"	8	559										381													



Operating and environmental conditions must be considered when making the selection of a quick coupling. The following seal compound and body material compatibility chart is provided as an aid in selecting a specific synthetic rubber compound or body material for a particular application.

DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
3M FC-75	4	4	4	1	1	2
ACETAMIDE	4	4	1	1	1	3
ACETIC ACID (5%)	3	3	1	2	1	1
ACETONE	1	2	1	3	1	3
ACETOPHENONE	2	2	2	3	1	3
ACETYL ACETONE	2	2	2	3	1	3
ACETYL CHLORIDE	4	2	2	3	3	1
ACETYLENE	3	2	1	1	1	1
AIR (200 DEGREES F.)	1	2	1	1	1	1
AIR (300 DEGREES F.)	1	2	1	2	2	1
AIR (400 DEGREES F.)	1	2	1	3	3	1
ALUMINUM ACETATE	4	4	4	2	1	3
ALUMINUM BROMIDE	4	4	4	1	1	1
ALUMINUM CHLORIDE (10%)	3	3	3	1	1	1
ALUMINUM CHLORIDE (100%)	3	2	2	1	1	1
ALUMINUM FLOURIDE	3	3	3	1	1	1
ALUMINUM NITRATE	3	3	2	1	1	1
ALUMINUM SALTS	4	4	4	1	1	1
ALUMINUM SULPHATE	2	3	2	1	1	1
ALUMS (NH ₃ ,Cr,K)	4	4	4	1	1	3
AMMONIA (ANHYDROUS)	3	2	1	2	1	3
AMMONIA (COLD, GAS)	3	2	4	1	1	3
AMMONIA (HOT, GAS)	3	2	4	3	2	3
AMMONIUM CARBONATE	3	2	3	3	1	1
AMMONIUM CHLORIDE	3	3	2	1	1	1
AMMONIUM HYDROXIDE	3	3	1	3	1	3
AMMONIUM NITRATE	3	3	1	1	1	4
AMMONIUM PERSULFATE SOLUTION	3	3	1	3	1	4
AMMONIUM SALTS	4	4	4	1	1	3
AMMONIUM SULFATE	3	3	2	1	1	3
AMYL BORATE	4	4	4	1	3	1
AMYL CHLORIDE	4	2	1	4	3	1
AMYL CHLORONAPHTHALENE	4	4	4	3	3	1
AMYL NAPHTHALENE	4	4	4	3	3	1
ANIMAL OIL (LARD OIL)	2	2	2	1	2	1
AROCLOR 1248	2	3	3	3	2	1
AROCLOR 1254	2	3	3	3	2	1
AROCLOR 1260	2	3	3	1	4	1
AROMATIC FUEL (50%)	4	4	4	2	3	1
ARSENIC ACID	3	3	1	1	1	1
ASPHALT	3	3	1	2	3	1
ASTM OIL, NO. 1	1	1	1	1	3	1
ASTM OIL, NO. 2	1	1	1	1	3	1
ASTM OIL, NO. 3	1	1	1	1	3	1
ASTM OIL, NO. 4	1	1	1	2	3	1
ASTM REFERENCE FUEL A	3	2	1	1	3	1
ASTM REFERENCE FUEL B	3	2	1	1	3	1
ASTM REFERENCE FUEL C	3	2	1	2	3	1
AUTOMOTIVE BRAKE FLUID	4	4	4	3	1	3

DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
BARIUM CHLORIDE	3	3	2	1	1	1
BARIUM HYDROXIDE	3	2	2	1	1	1
BARIUM SALTS	4	4	4	1	1	1
BARIUM SULFIDE	3	2	3	1	1	1
BEER	3	3	1	1	1	1
BEET SUGAR LIQUORS	3	3	1	1	1	1
BENZALDEHYDE	3	3	2	3	1	3
BENZENE	3	2	3	3	3	1
BENZENESULFONIC ACID (10%)	3	3	3	3	3	1
BENZINE	4	4	4	1	3	1
BENZOIC ACID	3	3	3	3	3	1
BENZYL ALCOHOL	4	3	1	3	2	1
BENZYL CHLORIDE	3	3	2	3	3	1
BLEACH LIQUOR	4	4	4	3	1	1
BORAX	3	2	3	2	1	1
BORDEAUX MIXTURE	4	4	4	2	1	1
BORIC ACID	3	3	2	1	1	1
BRAKE FLUID (NON-PETROLEUM)	4	4	4	3	1	3
BRINE (SODIUM CHLORIDE)	3	3	1	1	1	1
BROMINE	4	4	4	3	3	1
BROMINE WATER	4	4	4	3	2	1
BUNKER OIL	4	4	4	1	3	1
BUTADIENE (MONOMER)	3	2	1	3	3	1
BUTANE	3	1	1	1	3	1
BUTANE (2,2, & 2,3-DIMETHYL)	4	4	4	1	3	1
BUTANOL (BUTYL ALCOHOL)	2	1	1	1	2	1
BUTTER - ANIMAL FAT	2	3	1	1	1	1
BUTYL BUTYRATE	4	4	4	3	1	1
BUTYL STEARATE	4	4	4	2	3	1
CALCINE LIQUORS	4	4	4	1	1	1
CALCIUM ACETATE	4	4	4	2	1	3
CALCIUM BISULFITE	3	3	2	2	1	2
CALCIUM CARBONATE	3	2	3	1	1	1
CALCIUM CHLORIDE	3	3	2	1	1	1
CALCIUM HYDROXIDE	3	3	2	1	1	1
CALCIUM HYPOCHLORITE	3	3	2	2	1	1
CALCIUM SALTS	4	4	4	1	1	1
CALCIUM SULFIDE	3	3	2	1	1	1
CALICHE LIQUORS	4	4	4	1	1	1
CANE SUGAR LIQUORS	4	2	1	1	1	1
CARBON BISULPHIDE	4	4	4	3	3	1
CARBON DIOXIDE	1	2	1	1	1	1
CARBON DISULFIDE	2	2	2	3	3	1
CARBON MONOXIDE	1	1	1	1	1	1
CARBON TETRACHLORIDE	2	3	1	2	3	1
CARBONIC ACID	3	3	1	2	1	1
CASTOR OIL	1	1	1	1	2	1
CELLUGUARD	4	4	4	1	1	1
CELLULUBE (NOW FYRQUEL)	4	4	4	3	1	1
CHINA WOOD OIL (TUNG OIL)	2	2	1	1	3	1
CHLORINATED SALT BRINE	4	4	4	3	3	1
CHLORINATED SOLVENTS	4	4	4	3	3	1
CHLOROBENZENE	3	3	2	3	3	1
CHLOROBUTADIENE	4	4	4	3	3	1

DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
COPPER CHLORIDE	4	4	4	1	1	1
COPPER SALTS	4	4	4	1	1	1
COPPER SULFATE	3	3	2	1	1	1
CORN OIL	2	1	1	1	3	1
COTTONSEED OIL	3	2	1	1	3	1
CREOSOLS	3	2	1	3	3	1
CREOSOTE	3	3	2	1	3	1
CRESYLIC ACID	4	2	1	3	3	1
CRUDE OIL	3	2	1	2	3	1
CUTTING OIL	4	1	1	1	3	1
DECANE	4	4	4	1	3	1
DENATURED ALCOHOL	4	4	4	1	1	1
DETERGENT, WATER SOLUTION	3	3	1	1	1	1
DIESEL FUEL	1	1	1	1	3	1
DIETHYLENE GLYCOL	3	1	1	1	1	1
DIMETHYL FORMAMIDE	4	4	1	2	1	3
DOW CHEMICAL HD50-4	4	4	4	4	1	3
DOW CORNING 200, 510, 550	4	4	4	2	1	1
DOWTHERM A,E	3	1	2	3	3	1
ETHANOL	1	3	3	3	1	3
ETHYL CHLORIDE	2	3	1	1	3	1
ETHYL HEXANOL	4	4	4	1	1	1
ETHYLENE DICHLORIDE	3	3	1	3	3	1
ETHYLENE GLYCOL	2	2	1	1	1	1
FATTY ACIDS	3	3	1	2	3	1
FREON 11	1	4	4	2	3	2
FREON 12	1	1	3	2	3	1
FREON 22	1	3	1	3	3	3
FREON 134a	1	1	1	2	1	4
FUEL OIL	3	1	1	1	3	1
GALLIC ACID	3	3	2	2	2	1
GAS, LIQUID, PROPANE (LPG)	1	3	1	1	3	1
GAS, NATURAL	2	3	1	1	3	1
GASOLINE	1	2	1	3	3	1
GELATIN	3	3	1	1	1	1
GLUCOSE	1	1	1	1	1	1
GLYCERINE (GLYCEROL)	2	1	1	1	1	1
GLYCOLS	3	2	2	1	1	3
GREEN SULFATE LIQUOR	3	3	3	2	1	1
GULF - FR FLUID (EMULSION)	4	4	4	1	3	1
GULF - FR FLUID G	4	4	4	1	1	1
GULF - FR FLUID P	4	4	4	3	2	2
HELIUM	1	1	1	1	1	1
HEPTANE	1	1	1	1	3	1
HYDRAULIC OIL (PETROLEUM BASE)	1	1	1	1	3	1
HYDRAULIC OIL (WATER BASE)	4	1	1	2	1	3
HYDRAZINE	4	3	1	2	1	3
HYDROGEN GAS	2	2	1	1	1	1
HYDROLUBE	4	4	4	1	1	1
ISO OCTANE	1	1	1	1	3	1
ISOBUTYL ALCOHOL	4	4	1	2	1	1
ISOPROPYL ALCOHOL	1	1	2	2	1	1
ISOPROPYL ETHER	1	1	1	2	3	3
JP3 AND JP4	1	1	1	1	3	1

DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
KEROSENE	1	1	1	1	3	1
LARD, ANIMAL FAT	1	1	1	1	2	1
LINSEED OIL	3	1	1	1	3	1
LUBRICATING OIL SAE 10, 20, 30, 40, 50	1	1	1	1	3	1
MAGNESIUM SALTS	4	4	4	1	1	1
MAGNESIUM SULPHATE	3	3	2	1	1	1
MERCURY	3	3	1	1	1	1
METHANE	1	3	1	1	3	1
METHANOL	1	1	1	1	1	3
METHYL BROMIDE	4	1	1	2	3	1
METHYL CHLORIDE (DRY)	2	3	1	3	3	1
METHYL CHLORIDE (WET)	1	3	1	3	3	1
METHYL ETHER	4	4	4	1	3	1
METHYL ETHYL KETONE	1	1	1	3	1	3
MIL-F-81912 (JP-9)	1	1	1	3	3	1
MIL-H-5606	1	1	1	1	3	1
MIL-H-6083	1	1	1	1	3	1
MIL-H-7083	1	1	1	1	1	2
MIL-H-8446 (MLO-8515)	2	1	1	2	3	1
MIL-L-2104 & 2104B	1	1	1	1	3	1
MIL-L-7808	3	2	1	2	3	1
MILK	2	1	1	1	1	1
MINERAL OILS	1	1	1	1	3	1
MLO-7277 AND MLO-7557	2	1	1	3	3	1
MOBILE HF	1	1	1	1	3	1
MONOMETHYL HYDRAZINE	4	4	4	2	1	4
NAPHTHA (COAL OR PETROLEUM)	2	1	2	2	3	1
NAPHTHALENE	2	1	2	3	3	1
NAPHTHENIC ACID	2	1	2	2	3	1
NEATSFOOT OIL	4	4	4	1	2	1
NICKEL, ACETATE	3	2	1	2	1	3
NICKEL CHLORIDE	3	3	2	1	1	1
NICKEL SALTS	4	4	4	1	1	1
NICKEL SULFATE	3	3	1	1	1	1
NITROGEN	1	1	1	1	1	1
NITROUS OXIDE	2	2	2	1	4	4
OCTYL ALCOHOL	1	1	1	2	3	1
OLIVE OIL	2	1	1	1	2	1
ORTHO-DICHLOROBENZENE	2	2	2	3	3	1
OXALIC ACID	3	3	2	2	1	1
OXYGEN (200-400 DEGREES F.)	1	1	1	3	3	2
OXYGEN, COLD	1	1	1	2	1	1
OZONE	3	3	1	3	1	1
PALMITIC ACID	1	2	1	1	2	1
PARA-DICHLOROBENZENE	2	1	1	3	3	1
PARKER O LUBE	1	1	1	1	3	1
PEANUT OIL	2	1	1	1	3	1
PENTANE (2-3-METHYL, & 2-4 DIMETHYL)	2	2	2	1	3	1
PERCHLORIC ACID -2N	3	3	2	3	2	1
PERCHLOROETHYLENE	3	2	2	2	3	1
PETROLATUM	1	1	1	1	3	1
PETROLEUM OIL, BELOW 250 DEGREES F.	1	1	1	1	3	1
PHENOL	1	1	1	3	3	1
PHOSPHORIC ACID (3 MOLAR)	3	3	2	1	1	1

DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
PHOSPHORIC ACID (CONCENTRATED)	3	3	2	3	1	1
PHOSPHOROUS TRICHLORIDE	3	3	1	3	1	1
PICRIC ACID, MOLTEN	3	3	2	2	2	1
PICRIC ACID, WATER SOLUTION	3	3	2	1	1	1
PINE OIL	2	2	1	1	3	1
PLATING SOLUTIONS (CHROME)	1	3	1	4	1	1
PLATING SOLUTIONS (OTHER)	4	1	1	1	1	1
PNEUMATIC SERVICE	1	1	1	1	1	1
POTASSIUM ACETATE	2	1	2	2	1	3
POTASSIUM CHLORIDE	3	3	1	1	1	1
POTASSIUM CYANIDE	3	2	2	1	1	1
POTASSIUM DICHROMATE	3	1	2	1	1	1
POTASSIUM HYDROXIDE (50%)	3	2	1	2	1	3
POTASSIUM NITRATE	2	1	1	1	1	1
POTASSIUM SALTS	4	4	4	1	1	1
POTASSIUM SULFATE	3	2	1	1	1	1
PRL-HIGH TEMP. HYDR. OIL	4	4	4	2	3	1
PRODUCER GAS	2	1	1	1	3	1
PROPANE	1	3	1	1	3	1
PROPYL ACETATE	3	1	1	3	2	3
PROPYL ALCOHOL	1	1	1	1	1	1
PROPYLENE	1	1	1	3	3	1
PYDRAUL 10E	3	1	1	3	1	3
PYDRAUL A-200, C SERIES	3	1	1	3	3	1
PYDRAUL, 3 SERIES	3	1	1	3	1	1
PYROGARD 42, 43, 53, 55 (PHOSPHATE ESTER)	4	4	4	3	1	1
PYROGARD D	4	4	4	1	3	3
SEA WATER (SALT WATER)	2	3	1	1	1	1
SHELL IRUS 905	4	4	4	1	3	1
SILICONE GREASES	1	1	1	1	1	1
SILVER NITRATE	3	3	1	2	1	1
SKYDROL 500, TYPE 2	3	1	1	3	1	3
SKYDROL 7000, TYPE 2	3	1	1	3	1	2
SOAP SOLUTIONS	3	3	1	1	1	1
SODIUM ACETATE	1	1	1	2	1	3
SODIUM BICARBONATE (BAKING SODA)	2	2	1	1	1	1
SODIUM BISULPHATE OR BISULPHITE	3	3	2	1	1	1
SODIUM BORATE	3	2	2	1	1	1
SODIUM CARBONATE (SODA ASH)	4	1	1	1	1	1
SODIUM CHLORIDE	3	2	2	1	1	1
SODIUM CYANIDE	3	1	1	1	1	4
SODIUM HYDROXIDE (CAUSTIC SODA, LYE)	3	2	1	2	1	2
SODIUM HYDROXIDE, 50%	3	3	1	2	1	2
SODIUM METAPHOSPHATE	2	1	2	1	1	1
SODIUM NITRATE	3	2	1	2	1	4
SODIUM PERBORATE	3	3	1	2	1	1
SODIUM PEROXIDE	3	1	2	2	1	1
SODIUM PHOSPHATES	1	3	2	1	1	1
SODIUM SALTS	4	4	4	1	1	1
SODIUM SULFATE	3	2	1	1	1	1
SODIUM SULFIDE AND SULFITE	3	3	2	1	1	1
SODIUM THIOSULFATE	3	3	1	2	1	1
SOYBEAN OIL	2	1	1	1	3	1
STANNOUS CHLORIDE (15%)	3	3	2	1	1	1

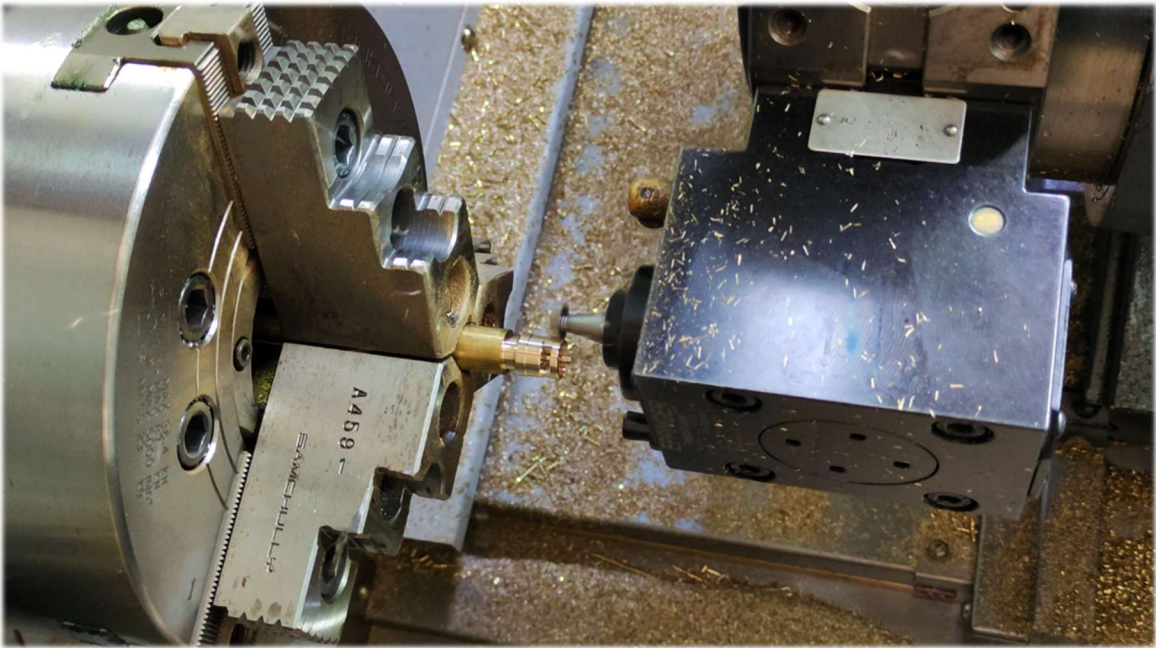
DEFINITIONS : Very Good = 1 Good = 2 Not Recommended = 3 Insufficient = 4

FLUID	BRASS	STEEL	STAINLESS	NBR	EPDM	VITON
STEAM, BELOW 400 DEGREES F.	1	3	1	3	1	3
STODDARD SOLVENT	2	1	1	1	3	1
SUCROSE SOLUTIONS	1	1	1	1	1	1
SULFUR	2	1	1	3	1	1
SULFUR LIQUORS	1	1	1	2	2	1
SULFUR (MOLTEN)	3	3	1	3	3	1
SULFUR DIOXIDE (DRY)	3	1	1	3	1	3
SULFUR TRIOXIDE (DRY)	2	2	2	3	2	1
SUNSAFE	3	1	1	1	3	1
TANNIC ACID (10%)	1	3	2	1	1	1
TAR, BITUMINOUS	2	1	1	2	3	1
TARTARIC ACID	2	3	3	1	2	1
TERPINEOL	4	4	4	2	3	1
TERTIARY BUTYL ALCOHOL	1	1	1	2	2	1
TETRACHLOROETHANE	4	2	1	3	3	1
TETRACHLOROETHYLENE	3	2	2	3	3	1
TETRAETHYL LEAD	1	1	1	2	3	1
TETRAETHYL LEAD (BLEND)	1	1	1	2	3	1
TITANIUM TETRACHLORIDE	2	1	2	2	3	1
TOLUENE	1	1	1	3	3	1
TRANSFORMER OIL	1	1	1	1	3	1
TRANSMISSION FLUID (TYPE A)	1	1	1	1	3	1
TRICHLOROETHANE	4	2	1	3	3	1
TRICHLOROETHYLENE	3	2	2	3	3	1
TRICRESYL PHOSPHATE	4	1	2	3	1	2
TURBINE OIL #15 (MIL-L-7808A)	4	2	1	2	3	1
TURPENTINE	3	2	1	1	3	1
VARNISH	1	1	1	2	3	1
WATER	1	3	1	1	1	2
WHISKEY	1	3	1	1	1	1
WINE	1	3	1	1	1	1
WOOD OIL	4	2	1	1	3	1
XYLENE	1	2	1	3	3	1
ZINC SULFATE	3	3	2	1	1	1
CHLOROFORM	3	2	2	3	3	1
CHLORPHENOL	4	4	4	3	3	1
COCONUT OIL	4	4	4	1	3	1





**TALAŞLI İMALATTAKİ UZMANLIĞIMIZ VE TASARIM
YETENEĞİMİZLE ÖZEL İHTİYAÇLARINIZ İÇİN ÇÖZÜMLER
ÜRETEBİLİYORUZ.**





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