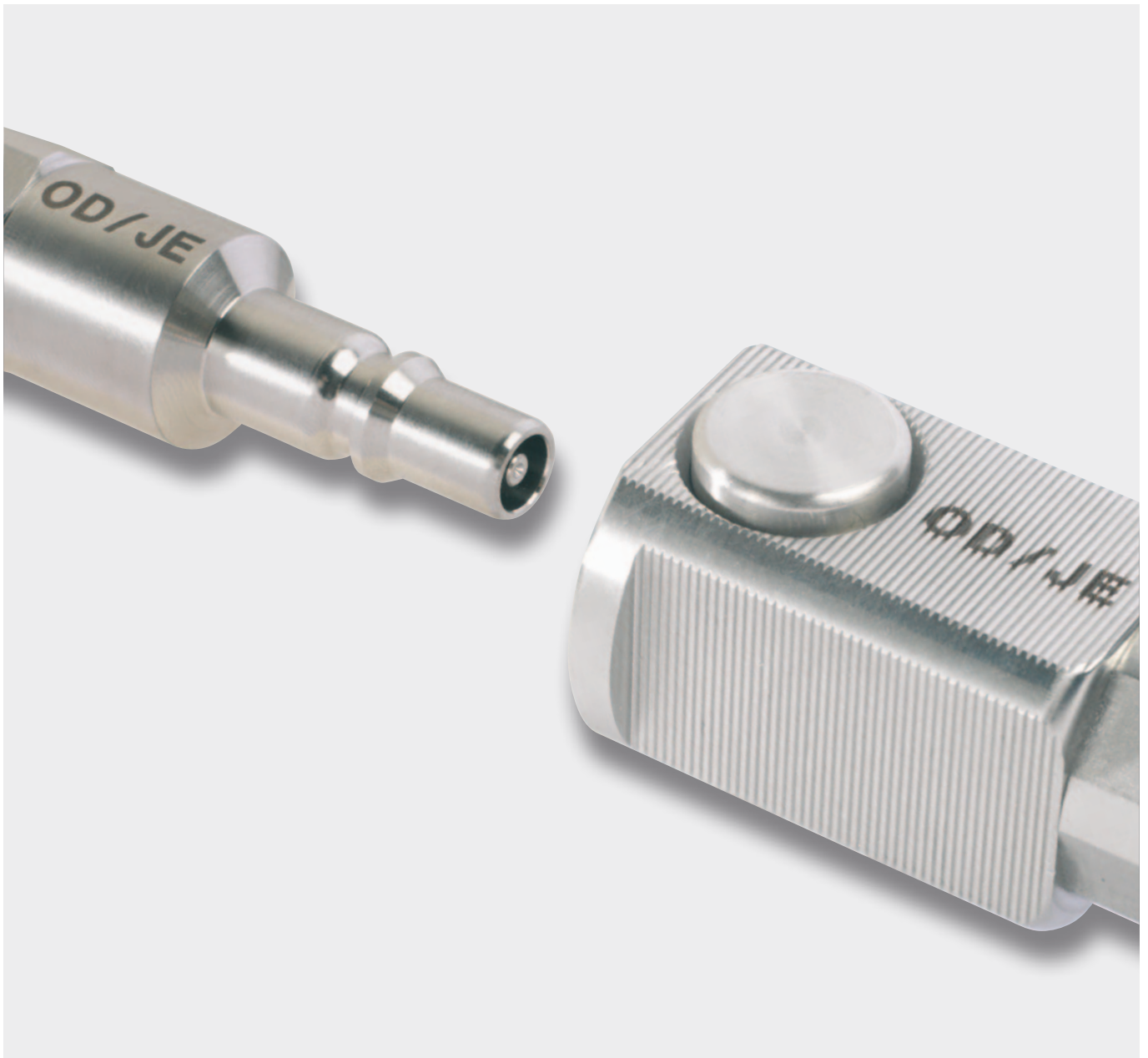
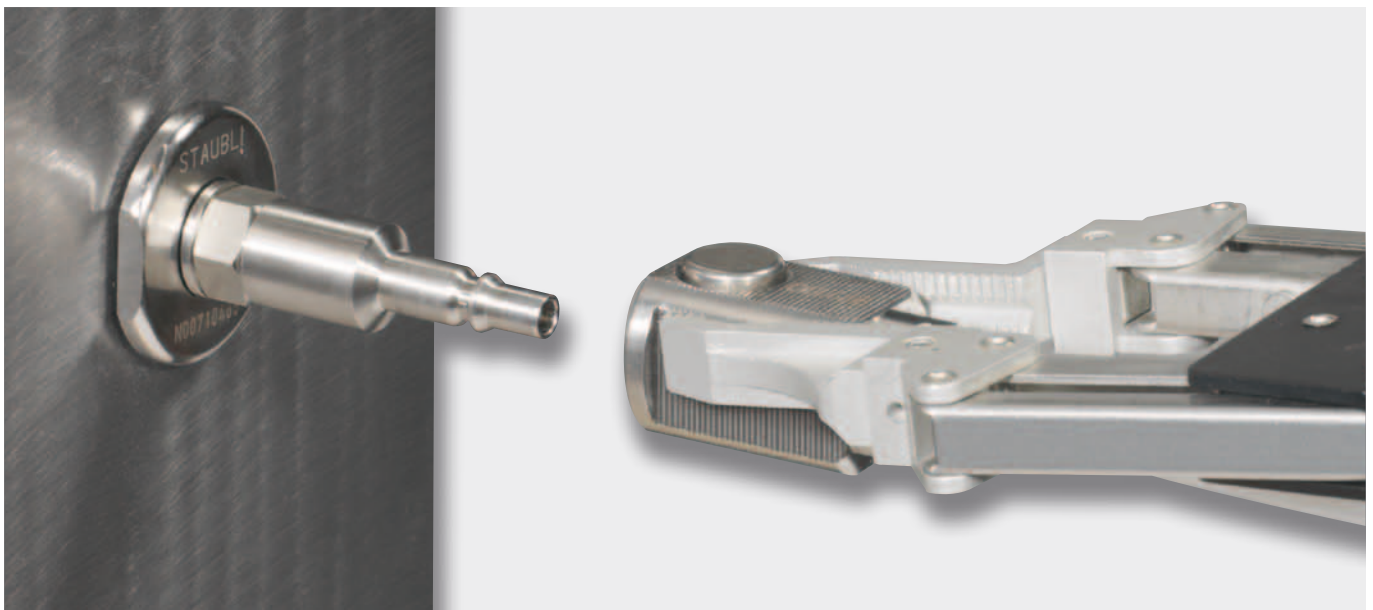


RBE/TM quick-release couplings for remote handling

Nuclear



Quick-release couplings for remote handling...



Easy connection

The long range guiding allows a pre-guiding of the plug into the socket for an easy connection whatever the position.

Product identification

Each socket and plug are engraved with:

- type of shut-off
 - type of seal
- for quick visual identification.

Easy remote handling

Specifically designed for remote handling:

- square body for better pincer gripping
- ribbed faces for improved locking (except RBE 19 and 25)
- mechanical front stop: pincer grasp from behind makes for effective axial thrust
- raised push button for easy disconnection

Material traceability

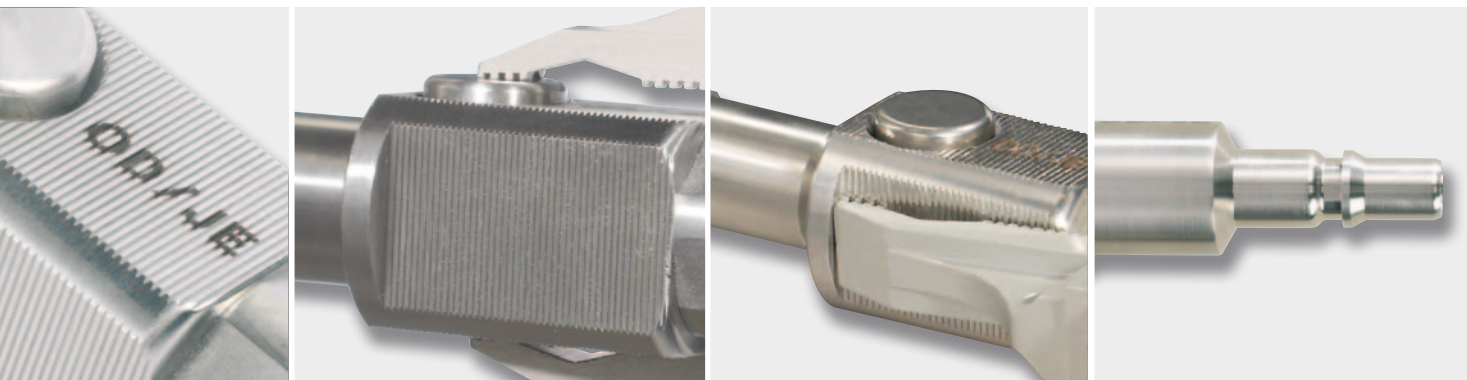
We can provide on request a certificate of cast analysis, type 3.1.

3D models available on request



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

With Stäubli, you can rely on the performance of your equipment and reliability of long-term investments.



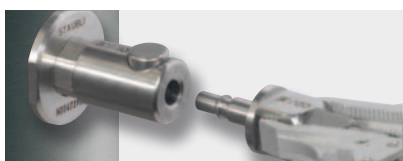
... of circuits in confinement cells

2 possible connection configurations

- **Configuration 1:**
Socket for remote handling and fixed plug (part-nr pages 6 to 9)



- **Configuration 2:**
Fixed socket and plug for remote handling (part-nr pages 10 to 13)



2 socket or plug installation types

- on sealed bulkhead fitting
- on weld adapter


2 connector connection types

- standard
- RS with reduced connection/disconnection effort


Several seal types

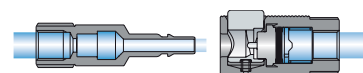
- Ethylene-Propylene (EPDM)
- Ethylene-Propylene (EPDM) PMUC version
- Fluorocarbon (FPM)
- Perfluoroelastomer (FFKM)


3 shut-off

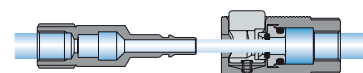
- Double shut-off:  valved socket and plug



- Single shut-off:  valved socket and full flow plug



- Unvalved:  full flow socket and plug



Technical characteristics



		RBE 03	RBE 06	RBE 08	RBE 11	RBE 19	RBE 25
Nominal diameter DN (mm)		3	5.5	8	11	19	25
Max. allowable working pressure* (bar)	Standard version	400	350	300	250	200	15
	RS version	-	15	15	15	15	-
Min. and max. allowable working temperatures TS (°C) depending on seal material:							
- Ethylene-Propylene (EPDM)		-20 and +150					
- Fluorocarbon (FPM)		-10 and +200					
- Perfluoroelastomer (FFKM)		0 and +250					
Shut-off	double						
	single						
	unvalved						

* Connection for rubber hose and ear clamp or radiator clamp assembly: pressure up to 16 bar

* For very **specific working conditions** such as high pulse or vibration conditions, regular rotation of the plug in the socket, high number of connections, consult us in order to define the most suitable coupling according to your application.

* For **dangerous gases**, according to the PED 97/23/CE (Pressure Equipment Directive), consult us for max. operating pressure.

Construction

Mainly stainless steel 316 series.
Spings: stainless steel with 18% chrome.
For more information, consult us.

Tightness

- As standard:
 - Ethylene-Propylene (EPDM) seals.
- Option:
 - Ethylene-Propylene (EPDM) seals, PMUC version
 - Fluorocarbon (FPM) seals
 - Perfluoroelastomer (FFKM) seals

Vacuum tightness

Helium test on request.

Remote handling data

Connecting and disconnecting forces

			RBE 03			RBE 06			RBE 08		RBE 11		RBE 19		RBE 25
			Std	Std	RS	Std	RS	Std	RS	Std	RS	Std	RS	Std	
Connecting force* (daN)	Double shut-off	Without pressure	< 5.5	< 6	< 3.5	< 10.5	< 6	< 13	< 6	< 13	< 6	< 13	< 8	< 15	
		Under 6 bar	< 6.5	< 10	< 7	< 16.5	< 13	< 24	< 18	< 43	< 36.5	< 65			
Disconnecting force* (daN)	Force applied on the push-button	Without pressure	< 2	< 4	< 1	< 5	< 1.5	< 7.5	< 2.5	< 10.5	< 4	< 5			
		Under 6 bar	< 2.5	< 4.5	< 2	< 6	< 2.5	< 10	< 5.5	< 18	< 12	< 16			

* These mean values are for illustrative purposes and may vary depending on the fluid conveyed, the type of seal used and the lubrication.

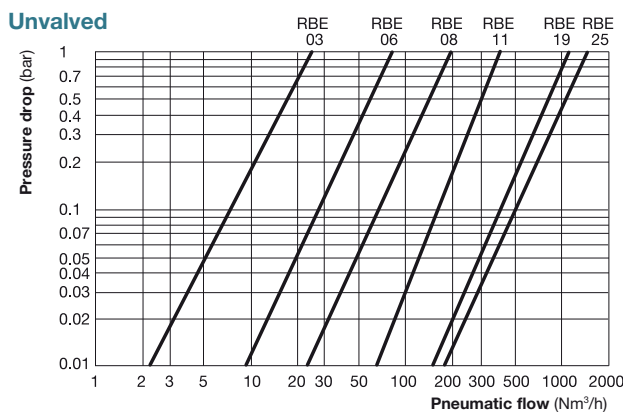
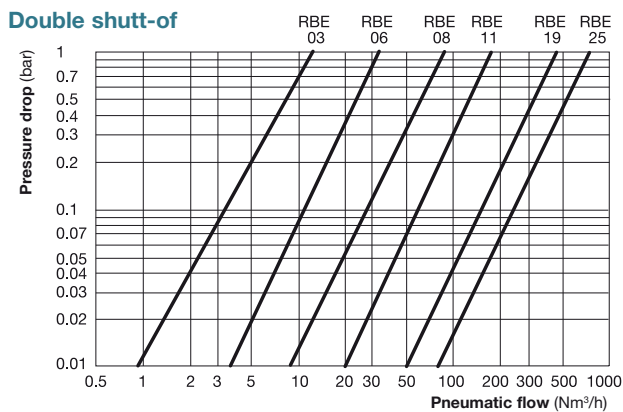
Dimensions

Socket for remote handling	Model	Dimensions (mm)			
		Ø	H	H1	H2
	RBE 03/TM	21.5	17.8	16.7	16.7
	RBE 06/TM	32	28.5	26	25
	RBE 08/TM	40	35	32	31
	RBE 11/TM	47	40.5	38	37
	RBE 19/TM	67	58	55	55
	RBE 25/TM	79.5	72	64	64

Plug for remote handling	Model	Dimensions (mm)	
		Ø A	Square H
	RBE 03/TM	22	18
	RBE 06/TM	27	20
	RBE 08/TM	35	27
	RBE 11/TM	45	36
	RBE 19/TM	60	43
	RBE 25/TM	64.5	-

Flow rate / pressure drop charts

Pneumatics

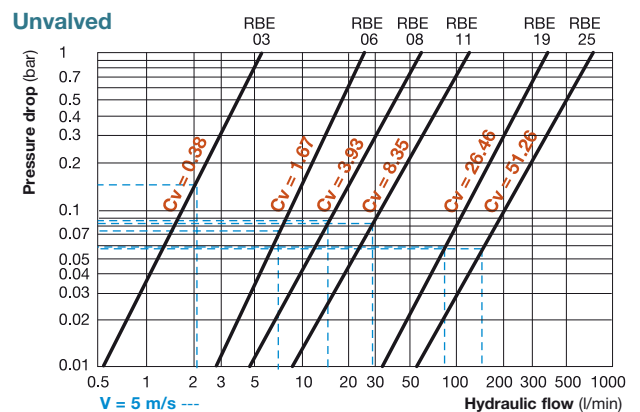
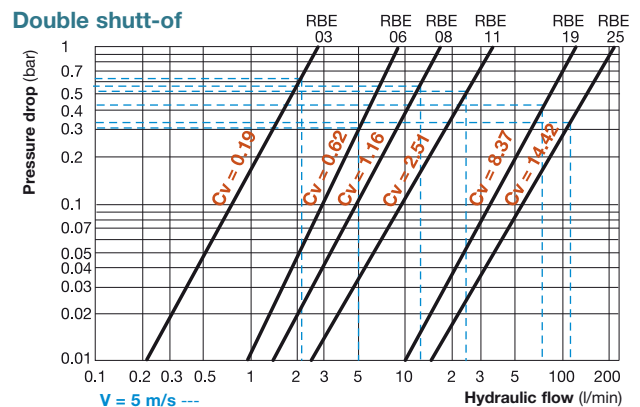


Single shut-off: consult us

Test conditions:

- Fluid: air
- Inlet pressure: 6 bar
- Direction of flow: Socket → Plug

Hydraulics



Single shut-off: consult us

Test conditions:

- Fluid: water at 20 °C
- Density: 998 kg/m³ at 20 °C
- Viscosity: 1,08 cSt at 20 °C
- Direction of flow: Socket → Plug

In order to provide the most suitable product for your application, please provide us with the following information: nature of the fluid, pressure, flow, temperature, concentration of the fluid (acids...), radiation intensity, specific conditions of use.

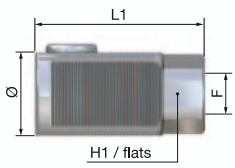
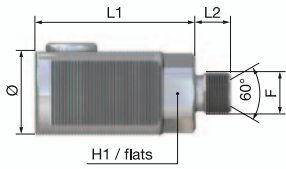
PART NUMBERS

Configuration 1

TM sockets for remote handling and TF fixed plugs



TM sockets

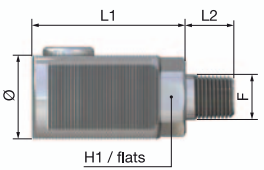
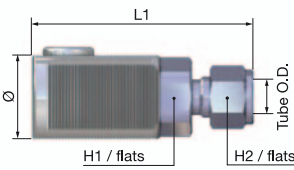
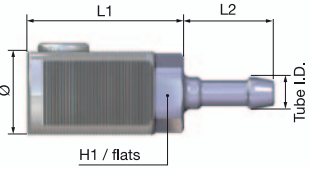
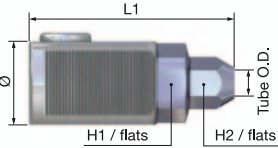
Description	Model	End connection F	Dimensions (mm)					Socket part numbers		
			Ø	L1	L2	H1/flats	H2/flats	Valved		
Socket female thread 	RBE 03	G 1/8	21.5	43.5		13		RBE 03.1100/IC/TM/VD/OD/JE		
		Rc 1/8	21.5	43		13		RBE 03.1110/IC/TM/VD/OD/JE		
		NPT 1/8	21.5	43		13		RBE 03.1200/IC/TM/VD/OD/JE		
	RBE 06	G 1/8	32	49.5		23		RBE 06.1100/IC/TM/VD/OD/JE		
		G 1/4	32	52.5		23		RBE 06.1101/IC/TM/VD/OD/JE		
		G 3/8	32	60.5		23		RBE 06.1102/IC/TM/VD/OD/JE		
		G 1/2	32	63.5		24		RBE 06.1103/IC/TM/VD/OD/JE		
		Rc 1/4	32	51.5		23		RBE 06.1111/IC/TM/VD/OD/JE		
		NPT 1/8	32	47.5		23		RBE 06.1200/IC/TM/VD/OD/JE		
		NPT 1/4	32	51.5		23		RBE 06.1201/IC/TM/VD/OD/JE		
		NPT 3/8	32	60.5		23		RBE 06.1202/IC/TM/VD/OD/JE		
	RBE 08	G 1/4	40	65		29		RBE 08.1101/IC/TM/VD/OD/JE		
		G 3/8	40	65		29		RBE 08.1102/IC/TM/VD/OD/JE		
		G 1/2	40	74		29		RBE 08.1103/IC/TM/VD/OD/JE		
		Rc 3/8	40	64		29		RBE 08.1112/IC/TM/VD/OD/JE		
		NPT 1/4	40	64		29		RBE 08.1201/IC/TM/VD/OD/JE		
		NPT 3/8	40	64		29		RBE 08.1202/IC/TM/VD/OD/JE		
	RBE 11	NPT 1/2	40	74		29		RBE 08.1203/IC/TM/VD/OD/JE		
		G 3/8	47	76		35		RBE 11.1102/IC/TM/VD/OD/JE		
		G 1/2	47	78		35		RBE 11.1103/IC/TM/VD/OD/JE		
		G 3/4	47	86		35		RBE 11.1104/IC/TM/VD/OD/JE		
		Rc 1/2	47	78		35		RBE 11.1113/IC/TM/VD/OD/JE		
		NPT 3/8	47	74		35		RBE 11.1202/IC/TM/VD/OD/JE		
		NPT 1/2	47	76		35		RBE 11.1203/IC/TM/VD/OD/JE		
	RBE 19	NPT 3/4	47	80		35		RBE 11.1204/IC/TM/VD/OD/JE		
		G 3/4	67	115		46		RBE 19.1104/IC/TM/VD/OD/JE		
		G 1	67	115		46		RBE 19.1105/IC/TM/VD/OD/JE		
Rc 3/4		67	112.5		46		RBE 19.1114/IC/TM/VD/OD/JE			
NPT 3/4		67	110		46		RBE 19.1204/IC/TM/VD/OD/JE			
RBE 25	NPT 1	67	115		46		RBE 19.1205/IC/TM/VD/OD/JE			
	G 1 1/4	79.5	172		55		RBE 25.1106/IC/TM/VD/OD/JE			
Socket BSP male thread 	RBE 03	G 1/8	21.5	34	8	13		RBE 03.1150/IC/TM/VD/OD/JE		
		G 1/4	21.5	34	11	13		RBE 03.1151/IC/TM/VD/OD/JE		
	RBE 06	G 1/8	32	49.5	8	23		RBE 06.1150/IC/TM/VD/OD/JE		
		G 1/4	32	49.5	11	23		RBE 06.1151/IC/TM/VD/OD/JE		
		G 3/8	32	48.5	12	23		RBE 06.1152/IC/TM/VD/OD/JE		
		G 1/2	32	48.5	14	23		RBE 06.1153/IC/TM/VD/OD/JE		
	RBE 08	G 1/4	40	61	11	29		RBE 08.1151/IC/TM/VD/OD/JE		
		G 3/8	40	61	12	29		RBE 08.1152/IC/TM/VD/OD/JE		
	RBE 11	G 1/2	40	61	14	29		RBE 08.1153/IC/TM/VD/OD/JE		
		G 3/8	47	72	12	35		RBE 11.1152/IC/TM/VD/OD/JE		
		G 1/2	47	72	14	35		RBE 11.1153/IC/TM/VD/OD/JE		
	RBE 19	G 3/4	47	71	16	35		RBE 11.1154/IC/TM/VD/OD/JE		
		G 1	67	102	16	46		RBE 19.1154/IC/TM/VD/OD/JE		
	RBE 25	G 1	67	100	20	46		RBE 19.1155/IC/TM/VD/OD/JE		
		G 1 1/4	79.5	145	20	55		RBE 25.1155/IC/TM/VD/OD/JE		
			G 1 1/4	79.5	145	21	55		RBE 25.1156/IC/TM/VD/OD/JE	



(except RBE 03 G 1/4 thread)

 **KES sealing kit:** see part numbers page 15.

TM sockets

Description	Model	End connection F or tube I.D./ O.D.	Dimensions (mm)					Socket part numbers	
			Ø	L1	L2	H1/flats	H2/flats	Valved	
Socket NPT male thread 	RBE 03	NPT 1/8	21.5	34	10	13		RBE 03.1250/IC/TM/VD/OD/JE	
		NPT 1/4	21.5	34	15	13		RBE 03.1251/IC/TM/VD/OD/JE	
	RBE 06	NPT 1/8	32	49.5	10	23		RBE 06.1250/IC/TM/VD/OD/JE	
		NPT 1/4	32	47.5	15	23		RBE 06.1251/IC/TM/VD/OD/JE	
	RBE 08	NPT 3/8	32	46.5	15	23		RBE 06.1252/IC/TM/VD/OD/JE	
		NPT 1/4	40	61	15	29		RBE 08.1251/IC/TM/VD/OD/JE	
		NPT 3/8	40	61	14.5	29		RBE 08.1252/IC/TM/VD/OD/JE	
	RBE 11	NPT 1/2	40	59	19	29		RBE 08.1253/IC/TM/VD/OD/JE	
		NPT 3/8	47	69.5	14.5	35		RBE 11.1252/IC/TM/VD/OD/JE	
	RBE 19	NPT 1/2	47	67	19	35		RBE 11.1253/IC/TM/VD/OD/JE	
		NPT 3/4	47	67.5	18.5	35		RBE 11.1254/IC/TM/VD/OD/JE	
	Socket for stainless steel tube 	RBE 03	1/4" O.D.	21.5	50.5		13	14	RBE 03.1753/IC/TM/VD/OD/JE
6 mm O.D.			21.5	50.5		13	14	RBE 03.1766/IC/TM/VD/OD/JE	
8 mm O.D.			21.5	51.5		13	17	RBE 03.1768/IC/TM/VD/OD/JE	
RBE 06		1/4" O.D.	32	67.5		23	14	RBE 06.1753/IC/TM/VD/OD/JE	
		3/8" O.D.	32	70.5		23	19	RBE 06.1755/IC/TM/VD/OD/JE	
		6 mm O.D.	32	67.5		23	14	RBE 06.1766/IC/TM/VD/OD/JE	
		8 mm O.D.	32	68.5		23	17	RBE 06.1768/IC/TM/VD/OD/JE	
		10 mm O.D.	32	68.5		23	19	RBE 06.1770/IC/TM/VD/OD/JE	
RBE 08		3/8" O.D.	40	82		29	19	RBE 08.1755/IC/TM/VD/OD/JE	
		1/2" O.D.	40	79		29	22	RBE 08.1756/IC/TM/VD/OD/JE	
		10 mm O.D.	40	80		29	19	RBE 08.1770/IC/TM/VD/OD/JE	
		12 mm O.D.	40	81		29	22	RBE 08.1772/IC/TM/VD/OD/JE	
Socket for rubber hose 	RBE 03	4 mm I.D.	21.5	34	23	14		RBE 03.1804/IC/TM/VD/OD/JE	
		6 mm I.D.	21.5	34	23	14		RBE 03.1806/IC/TM/VD/OD/JE	
	RBE 06	6 mm I.D.	32	48.5	28	23		RBE 06.1806/IC/TM/VD/OD/JE	
		8 mm I.D.	32	48.5	28	23		RBE 06.1808/IC/TM/VD/OD/JE	
		10 mm I.D.	32	48.5	28	23		RBE 06.1810/IC/TM/VD/OD/JE	
		13 mm I.D.	32	48.5	33	23		RBE 06.1813/IC/TM/VD/OD/JE	
	RBE 08	8 mm I.D.	40	72	28	29		RBE 08.1808/IC/TM/VD/OD/JE	
		10 mm I.D.	40	72	28	29		RBE 08.1810/IC/TM/VD/OD/JE	
		13 mm I.D.	40	72	33	29		RBE 08.1813/IC/TM/VD/OD/JE	
		16 mm I.D.	40	81	33	29		RBE 08.1816/IC/TM/VD/OD/JE	
	RBE 11	13 mm I.D.	47	83	33	35		RBE 11.1813/IC/TM/VD/OD/JE	
		16 mm I.D.	47	85	33	35		RBE 11.1816/IC/TM/VD/OD/JE	
	RBE 19	19 mm I.D.	47	85	53	35		RBE 11.1819/IC/TM/VD/OD/JE	
		19 mm I.D.	67	124	53	46		RBE 19.1819/IC/TM/VD/OD/JE	
		25 mm I.D.	67	126	53	46		RBE 19.1825/IC/TM/VD/OD/JE	
Socket for plastic tube 	RBE 03	Ø 4/6 mm	21.5	47.5		13	11	RBE 03.1904/IC/TM/VD/OD/JE	
		Ø 6/8 mm	21.5	48.5		13	14	RBE 03.1906/IC/TM/VD/OD/JE	
	RBE 06	Ø 6/8 mm	32	63.5		23	14	RBE 06.1906/IC/TM/VD/OD/JE	
		Ø 8/10 mm	32	73.5		23	17	RBE 06.1908/IC/TM/VD/OD/JE	

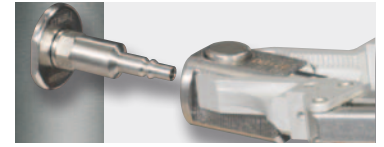
Unvalved sockets: replace the OD code with the OS code in the part-numbers above.

Overall dimensions in connected position: page 13. **How to built your part numbers:** page 14.

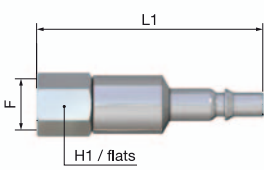
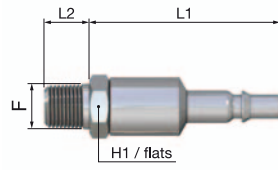
PART NUMBERS

Configuration 1

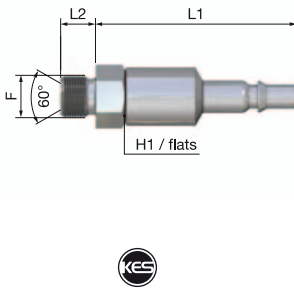
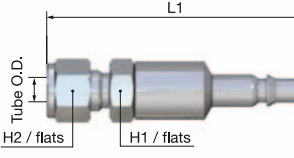
TM sockets for remote handling and TF fixed plugs



TF plugs

Description	Model	End connection F	Dimensions (mm)				Plug part numbers	
			L1	L2	H1/flats	H2/flats	Valved	Unvalved
Plug female thread 	RBE 03	G 1/8	36		14		-	RBE 03.6100/IC/TF
		G 1/8	51		13		RBE 03.7100/IC/TF/JE	-
		Rc 1/8	50.5		13		RBE 03.7110/IC/TF/JE	RBE 03.6110/IC/TF
		NPT 1/8	35		14		-	RBE 03.6200/IC/TF
		NPT 1/8	50		13		RBE 03.7200/IC/TF/JE	-
	RBE 06	G 1/8	65		17		RBE 06.7100/IC/TF/JE	RBE 06.6100/IC/TF
		G 1/4	50		17		-	RBE 06.6101/IC/TF
		G 1/4	70		17		RBE 06.7101/IC/TF/JE	-
		G 3/8	72		21		RBE 06.7102/IC/TF/JE	RBE 06.6102/IC/TF
		Rc 1/4	70		17		RBE 06.7111/IC/TF/JE	RBE 06.6111/IC/TF
		NPT 1/8	65		17		RBE 06.7200/IC/TF/JE	RBE 06.6200/IC/TF
		NPT 1/4	70		17		RBE 06.7201/IC/TF/JE	RBE 06.6201/IC/TF
	RBE 08	G 1/4	78		24		RBE 08.7101/IC/TF/JE	RBE 08.6101/IC/TF
		G 3/8	80		24		RBE 08.7102/IC/TF/JE	RBE 08.6102/IC/TF
		G 1/2	85		24		RBE 08.7103/IC/TF/JE	RBE 08.6103/IC/TF
		Rc 3/8	79		24		RBE 08.7112/IC/TF/JE	RBE 08.6112/IC/TF
		NPT 1/4	78		24		RBE 08.7201/IC/TF/JE	RBE 08.6201/IC/TF
		NPT 3/8	79		24		RBE 08.7202/IC/TF/JE	RBE 08.6202/IC/TF
	RBE 11	NPT 1/2	85		27		RBE 08.7203/IC/TF/JE	RBE 08.6203/IC/TF
		G 3/8	89		32		RBE 11.7102/IC/TF/JE	RBE 11.6102/IC/TF
		G 1/2	94		32		RBE 11.7103/IC/TF/JE	RBE 11.6103/IC/TF
		G 3/4	97.5		32		RBE 11.7104/IC/TF/JE	RBE 11.6104/IC/TF
		Rc 1/2	95		32		RBE 11.7113/IC/TF/JE	RBE 11.6113/IC/TF
		NPT 3/8	88		32		RBE 11.7202/IC/TF/JE	RBE 11.6202/IC/TF
	RBE 19	NPT 1/2	95		32		RBE 11.7203/IC/TF/JE	RBE 11.6203/IC/TF
		NPT 3/4	95		32		RBE 11.7204/IC/TF/JE	RBE 11.6204/IC/TF
G 3/4		89		41		-	RBE 19.6104/IC/TF	
G 3/4		130		41		RBE 19.7104/IC/TF/JE	-	
G 1		107		41		-	RBE 19.6105/IC/TF	
G 1		136		41		RBE 19.7105/IC/TF/JE	-	
Rc 3/4		129.5		41		RBE 19.7114/IC/TF/JE	RBE 19.6114/IC/TF	
NPT 3/4		87		41		-	RBE 19.6204/IC/TF	
Plug NPT male thread 	RBE 03	NPT 1/8	30	10	14		-	RBE 03.6250/IC/TF
		NPT 1/8	41	10	13		RBE 03.7250/IC/TF/JE	-
		NPT 1/4	32	14.5	17		-	RBE 03.6251/IC/TF
		NPT 1/4	41	15	13		RBE 03.7251/IC/TF/JE	-
	RBE 06	NPT 1/8	61	10	17		RBE 06.7250/IC/TF/JE	RBE 06.6250/IC/TF
		NPT 1/4	59	14	17		RBE 06.7251/IC/TF/JE	RBE 06.6251/IC/TF
	RBE 08	NPT 1/4	72	14.5	24		RBE 08.7251/IC/TF/JE	RBE 08.6251/IC/TF
		NPT 3/8	72.5	14.5	24		RBE 08.7252/IC/TF/JE	RBE 08.6252/IC/TF
	RBE 11	NPT 1/2	72	18.5	24		RBE 08.7253/IC/TF/JE	RBE 08.6253/IC/TF
		NPT 3/8	84.5	14.5	32		RBE 11.7252/IC/TF/JE	RBE 11.6252/IC/TF
	RBE 19	NPT 3/4	76	19	41		-	RBE 19.6254/IC/TF
		NPT 3/4	123	19	41		RBE 19.7254/IC/TF/JE	-
NPT 1		76	24	41		-	RBE 19.6255/IC/TF	
NPT 1		123	23.5	41		RBE 19.7255/IC/TF/JE	-	

TF plugs

Description	Model	End connection F or tube O.D.	Dimensions (mm)				Plug part numbers	
			L1	L2	H1/flats	H2/flats	Valved	Unvalved
Plug BSP male thread 	RBE 03	G 1/8	29	8	14		-	RBE 03.6150/IC/TF
		G 1/8	41	8	13		RBE 03.7150/IC/TF/JE	-
		G 1/4	41	11	17		RBE 03.7151/IC/TF/JE	RBE 03.6151/IC/TF
	RBE 06	G 1/8	62	8	17		RBE 06.7150/IC/TF/JE	RBE 06.6150/IC/TF
		G 1/4	34	11	17		-	RBE 06.6151/IC/TF
		G 1/4	62	11	17		RBE 06.7151/IC/TF/JE	-
		G 3/8	62	12	21		RBE 06.7152/IC/TF/JE	RBE 06.6152/IC/TF
		G 1/2	63	14	24		RBE 06.7153/IC/TF/JE	RBE 06.6153/IC/TF
	RBE 08	G 1/4	72	11	24		RBE 08.7151/IC/TF/JE	RBE 08.6151/IC/TF
		G 3/8	72	12	24		RBE 08.7152/IC/TF/JE	RBE 08.6152/IC/TF
		G 1/2	72	14	24		RBE 08.7153/IC/TF/JE	RBE 08.6153/IC/TF
	RBE 11	G 3/8	85	12	32		RBE 11.7152/IC/TF/JE	RBE 11.6152/IC/TF
		G 1/2	85	14	32		RBE 11.7153/IC/TF/JE	RBE 11.6153/IC/TF
		G 3/4	85	16	32		RBE 11.7154/IC/TF/JE	RBE 11.6154/IC/TF
	RBE 19	G 3/4	75	16	41		-	RBE 19.6154/IC/TF
		G 3/4	123	16	41		RBE 19.7154/IC/TF/JE	-
		G 1	76	20	41		-	RBE 19.6155/IC/TF
	RBE 25	G 1	123	20	41		RBE 19.7155/IC/TF/JE	-
		G 1	147	20	48		RBE 25.7155/IC/TF/JE	RBE 25.6155/IC/TF
		G 1 1/4	99.5	21	50		-	RBE 25.6156/IC/TF
Plug for stainless steel tube 	RBE 03	1/4" O.D.	58		13	14	RBE 03.7753/IC/TF/JE	RBE 03.6753/IC/TF
		6 mm O.D.	58		13	14	RBE 03.7766/IC/TF/JE	RBE 03.6766/IC/TF
		8 mm O.D.	59		13	17	RBE 03.7768/IC/TF/JE	RBE 03.6768/IC/TF
	RBE 06	1/4" O.D.	79		14	17	RBE 06.7753/IC/TF/JE	RBE 06.6753/IC/TF
		3/8" O.D.	79		19	17	RBE 06.7755/IC/TF/JE	RBE 06.6755/IC/TF
		6 mm O.D.	79		14	17	RBE 06.7766/IC/TF/JE	RBE 06.6766/IC/TF
		8 mm O.D.	79		17	17	RBE 06.7768/IC/TF/JE	RBE 06.6768/IC/TF
		10 mm O.D.	79		19	17	RBE 06.7770/IC/TF/JE	RBE 06.6770/IC/TF
	RBE 08	3/8" O.D.	93		24	19	RBE 08.7755/IC/TF/JE	RBE 08.6755/IC/TF
		1/2" O.D.	90		24	22	RBE 08.7756/IC/TF/JE	RBE 08.6756/IC/TF
		10 mm O.D.	91		24	19	RBE 08.7770/IC/TF/JE	RBE 08.6770/IC/TF
		12 mm O.D.	92		24	22	RBE 08.7772/IC/TF/JE	RBE 08.6772/IC/TF

Overall dimensions in connected position: page 13.

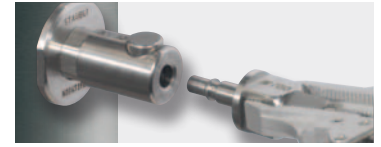
How to built your part numbers: page 14.

KES sealing kit: see part numbers page 15.

PART NUMBERS

Configuration 2

TF fixed plugs and TM sockets for remote handling



TF sockets

Description	Model	End connection F	Dimensions (mm)					Socket part numbers	
			Ø	L1	L2	H1/flats	H2/flats	Valved	
Socket female thread 	RBE 03	G 1/8	16	43.5		13		RBE 03.1100/IC/TF/VD/OD/JE	
		Rc 1/8	16	43		13		RBE 03.1110/IC/TF/VD/OD/JE	
		NPT 1/8	16	43		13		RBE 03.1200/IC/TF/VD/OD/JE	
	RBE 06	G 1/8	26	49.5		23		RBE 06.1100/IC/TF/VD/OD/JE	
		G 1/4	26	52.5		23		RBE 06.1101/IC/TF/VD/OD/JE	
		G 3/8	26	60.5		23		RBE 06.1102/IC/TF/VD/OD/JE	
		G 1/2	26	63.5		24		RBE 06.1103/IC/TF/VD/OD/JE	
		Rc 1/4	26	51.5		23		RBE 06.1111/IC/TF/VD/OD/JE	
		NPT 1/8	26	47.5		23		RBE 06.1200/IC/TF/VD/OD/JE	
		NPT 1/4	26	51.5		23		RBE 06.1201/IC/TF/VD/OD/JE	
		NPT 3/8	26	60.5		23		RBE 06.1202/IC/TF/VD/OD/JE	
	RBE 08	G 1/4	32	65		29		RBE 08.1101/IC/TF/VD/OD/JE	
		G 3/8	32	65		29		RBE 08.1102/IC/TF/VD/OD/JE	
		G 1/2	32	74		29		RBE 08.1103/IC/TF/VD/OD/JE	
		Rc 3/8	32	64		29		RBE 08.1112/IC/TF/VD/OD/JE	
		NPT 1/4	32	64		29		RBE 08.1201/IC/TF/VD/OD/JE	
		NPT 3/8	32	64		29		RBE 08.1202/IC/TF/VD/OD/JE	
		NPT 1/2	32	74		29		RBE 08.1203/IC/TF/VD/OD/JE	
	RBE 11	G 3/8	38	76		35		RBE 11.1102/IC/TF/VD/OD/JE	
		G 1/2	38	78		35		RBE 11.1103/IC/TF/VD/OD/JE	
		G 3/4	38	86		35		RBE 11.1104/IC/TF/VD/OD/JE	
		Rc 1/2	38	78		35		RBE 11.1113/IC/TF/VD/OD/JE	
		NPT 3/8	38	74		35		RBE 11.1202/IC/TF/VD/OD/JE	
		NPT 1/2	38	76		35		RBE 11.1203/IC/TF/VD/OD/JE	
		NPT 3/4	38	80		35		RBE 11.1204/IC/TF/VD/OD/JE	
	RBE 19	G 3/4	55	115		46		RBE 19.1104/IC/TF/VD/OD/JE	
		G 1	55	115		46		RBE 19.1105/IC/TF/VD/OD/JE	
		Rc 3/4	55	112.5		46		RBE 19.1114/IC/TF/VD/OD/JE	
NPT 3/4		55	110		46		RBE 19.1204/IC/TF/VD/OD/JE		
NPT 1		55	115		46		RBE 19.1205/IC/TF/VD/OD/JE		
Socket BSP male thread 	RBE 03	G 1/8	16	34	8	13		RBE 03.1150/IC/TF/VD/OD/JE	
		G 1/4	16	34	11	17		RBE 03.1151/IC/TF/VD/OD/JE	
	RBE 06	G 1/8	26	49.5	8	23		RBE 06.1150/IC/TF/VD/OD/JE	
		G 1/4	26	49.5	11	23		RBE 06.1151/IC/TF/VD/OD/JE	
		G 3/8	26	48.5	12	23		RBE 06.1152/IC/TF/VD/OD/JE	
		G 1/2	26	48.5	14	23		RBE 06.1153/IC/TF/VD/OD/JE	
	RBE 08	G 1/4	32	61	11	29		RBE 08.1151/IC/TF/VD/OD/JE	
		G 3/8	32	61	12	29		RBE 08.1152/IC/TF/VD/OD/JE	
		G 1/2	32	61	14	29		RBE 08.1153/IC/TF/VD/OD/JE	
	RBE 11	G 3/8	38	72	12	35		RBE 11.1152/IC/TF/VD/OD/JE	
		G 1/2	38	72	14	35		RBE 11.1153/IC/TF/VD/OD/JE	
		G 3/4	38	71	16	35		RBE 11.1154/IC/TF/VD/OD/JE	
	RBE 19	G 3/4	55	102	16	46		RBE 19.1154/IC/TF/VD/OD/JE	
		G 1	55	100	20	46		RBE 19.1155/IC/TF/VD/OD/JE	

TF sockets

Description	Model	End connection F or tube O.D.	Dimensions (mm)					Socket part numbers	
			Ø	L1	L2	H1/flats	H2/flats	Valved	
Socket NPT male thread 	RBE 03	NPT 1/8	16	34	10	13		RBE 03.1250/IC/TF/VD/OD/JE	
		NPT 1/4	16	34	15	13		RBE 03.1251/IC/TF/VD/OD/JE	
	RBE 06	NPT 1/8	26	49.5	10	23		RBE 06.1250/IC/TF/VD/OD/JE	
		NPT 1/4	26	47.5	15	23		RBE 06.1251/IC/TF/VD/OD/JE	
		NPT 3/8	26	46.5	15	23		RBE 06.1252/IC/TF/VD/OD/JE	
	RBE 08	NPT 1/2	26	45.5	17	23		RBE 06.1253/IC/TF/VD/OD/JE	
		NPT 1/4	32	61	15	29		RBE 08.1251/IC/TF/VD/OD/JE	
		NPT 3/8	32	61	14.5	29		RBE 08.1252/IC/TF/VD/OD/JE	
	RBE 11	NPT 1/2	32	59	19	29		RBE 08.1253/IC/TF/VD/OD/JE	
		NPT 3/8	38	69.5	14.5	35		RBE 11.1252/IC/TF/VD/OD/JE	
		NPT 1/2	38	67	19	35		RBE 11.1253/IC/TF/VD/OD/JE	
	RBE 19	NPT 3/4	38	67.5	18.5	35		RBE 11.1254/IC/TF/VD/OD/JE	
		NPT 1	55	104	18.5	46		RBE 19.1254/IC/TF/VD/OD/JE	
	Socket for stainless steel tube 	RBE 03	1/4" O.D.	16	50.5		13	14	RBE 03.1753/IC/TF/VD/OD/JE
			6 mm O.D.	16	50.5		13	14	RBE 03.1766/IC/TF/VD/OD/JE
8 mm O.D.			16	51.5		13	17	RBE 03.1768/IC/TF/VD/OD/JE	
RBE 06		1/4" O.D.	26	67.5		23	14	RBE 06.1753/IC/TF/VD/OD/JE	
		3/8" O.D.	26	70.5		23	19	RBE 06.1755/IC/TF/VD/OD/JE	
		6 mm O.D.	26	67.5		23	14	RBE 06.1766/IC/TF/VD/OD/JE	
		8 mm O.D.	26	68.5		23	17	RBE 06.1768/IC/TF/VD/OD/JE	
		10 mm O.D.	26	68.5		23	19	RBE 06.1770/IC/TF/VD/OD/JE	
RBE 08		3/8" O.D.	32	82		29	19	RBE 08.1755/IC/TF/VD/OD/JE	
		1/2" O.D.	32	79		29	22	RBE 08.1756/IC/TF/VD/OD/JE	
		10 mm O.D.	32	80		29	19	RBE 08.1770/IC/TF/VD/OD/JE	
		12 mm O.D.	32	81		29	22	RBE 08.1772/IC/TF/VD/OD/JE	

Unvalved sockets: replace the OD code with the OS code in the part-numbers above.

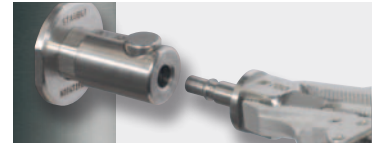
Overall dimensions in connected position: page 13. **How to built your part numbers:** page 14.

KES sealing kit: see part numbers page 15.

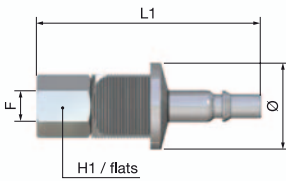
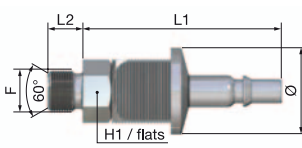

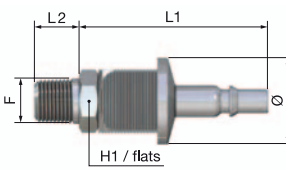
PART NUMBERS

Configuration 2

TF fixed plugs and TM sockets for remote handling



TM plugs

Description	Model	End connection F	Dimensions (mm)					Plug part numbers		
			Ø	L1	L2	H1/flats	H2/flats	Valved	Unvalved	
Plug female thread 	RBE 03	G 1/8	22	51		13		RBE 03.7100/IC/TM/JE	RBE 03.6100/IC/TM	
		Rc 1/8	22	50.5		13		RBE 03.7110/IC/TM/JE	RBE 03.6110/IC/TM	
		NPT 1/8	22	50		13		RBE 03.7200/IC/TM/JE	RBE 03.6200/IC/TM	
	RBE 06	G 1/8	27	65		17		RBE 06.7100/IC/TM/JE	RBE 06.6100/IC/TM	
		G 1/4	27	70		17		RBE 06.7101/IC/TM/JE	RBE 06.6101/IC/TM	
		Rc 1/4	27	70		17		RBE 06.7111/IC/TM/JE	RBE 06.6111/IC/TM	
		NPT 1/8	27	65		17		RBE 06.7200/IC/TM/JE	RBE 06.6200/IC/TM	
		NPT 1/4	27	70		17		RBE 06.7201/IC/TM/JE	RBE 06.6201/IC/TM	
		RBE 08	G 1/4	35	78		24		RBE 08.7101/IC/TM/JE	RBE 08.6101/IC/TM
	G 3/8		35	80		24		RBE 08.7102/IC/TM/JE	RBE 08.6102/IC/TM	
	G 1/2		35	85		24		RBE 08.7103/IC/TM/JE	RBE 08.6103/IC/TM	
	Rc 3/8		35	79		24		RBE 08.7112/IC/TM/JE	RBE 08.6112/IC/TM	
	NPT 1/4		35	78		24		RBE 08.7201/IC/TM/JE	RBE 08.6201/IC/TM	
	NPT 3/8		35	79		24		RBE 08.7202/IC/TM/JE	RBE 08.6202/IC/TM	
	RBE 11	G 3/8	45	89		32		RBE 11.7102/IC/TM/JE	RBE 11.6102/IC/TM	
		G 1/2	45	94		32		RBE 11.7103/IC/TM/JE	RBE 11.6103/IC/TM	
		G 3/4	45	97.5		32		RBE 11.7104/IC/TM/JE	RBE 11.6104/IC/TM	
		Rc 1/2	45	95		32		RBE 11.7113/IC/TM/JE	RBE 11.6113/IC/TM	
		NPT 3/8	45	88		32		RBE 11.7202/IC/TM/JE	RBE 11.6202/IC/TM	
		NPT 1/2	45	95		32		RBE 11.7203/IC/TM/JE	RBE 11.6203/IC/TM	
RBE 19	NPT 3/4	45	95		32		RBE 11.7204/IC/TM/JE	RBE 11.6204/IC/TM		
	G 3/4	60	130		41		RBE 19.7104/IC/TM/JE	RBE 19.6104/IC/TM		
	G 1	60	136		41		RBE 19.7105/IC/TM/JE	RBE 19.6105/IC/TM		
	Rc 3/4	60	129.5		41		RBE 19.7114/IC/TM/JE	RBE 19.6114/IC/TM		
	NPT 3/4	60	128		41		RBE 19.7204/IC/TM/JE	RBE 19.6204/IC/TM		
Plug BSP male thread   (sauf RBE 03 filetage G 1/4)	RBE 03	G 1/8	22	41	8	13		RBE 03.7150/IC/TM/JE	RBE 03.6150/IC/TM	
		G 1/4	22	41	11	13		RBE 03.7151/IC/TM/JE	RBE 03.6151/IC/TM	
	RBE 06	G 1/8	27	62	8	17		RBE 06.7150/IC/TM/JE	RBE 06.6150/IC/TM	
		G 1/4	27	62	11	17		RBE 06.7151/IC/TM/JE	RBE 06.6151/IC/TM	
	RBE 08	G 1/4	35	72	11	24		RBE 08.7151/IC/TM/JE	RBE 08.6151/IC/TM	
		G 3/8	35	72	12	24		RBE 08.7152/IC/TM/JE	RBE 08.6152/IC/TM	
		G 1/2	35	72	14	24		RBE 08.7153/IC/TM/JE	RBE 08.6153/IC/TM	
	RBE 11	G 3/8	45	85	12	32		RBE 11.7152/IC/TM/JE	RBE 11.6152/IC/TM	
		G 1/2	45	85	14	32		RBE 11.7153/IC/TM/JE	RBE 11.6153/IC/TM	
		G 3/4	45	85	16	32		RBE 11.7154/IC/TM/JE	RBE 11.6154/IC/TM	
	RBE 19	G 3/4	60	123	16	41		RBE 19.7154/IC/TM/JE	RBE 19.6154/IC/TM	
		G1	60	123	20	41		RBE 19.7155/IC/TM/JE	RBE 19.6155/IC/TM	
	Plug NPT male thread 	RBE 03	NPT 1/8	22	41	10	13		RBE 03.7250/IC/TM/JE	RBE 03.6250/IC/TM
			NPT 1/4	22	41	15	13		RBE 03.7251/IC/TM/JE	RBE 03.6251/IC/TM
RBE 06		NPT 1/8	27	61	10	17		RBE 06.7250/IC/TM/JE	RBE 06.6250/IC/TM	
		NPT 1/4	27	59	14	17		RBE 06.7251/IC/TM/JE	RBE 06.6251/IC/TM	
RBE 08		NPT 1/4	35	72	14.5	24		RBE 08.7251/IC/TM/JE	RBE 08.6251/IC/TM	
		NPT 3/8	35	72.5	14.5	24		RBE 08.7252/IC/TM/JE	RBE 08.6252/IC/TM	
		NPT 1/2	35	72	18.5	24		RBE 08.7253/IC/TM/JE	RBE 08.6253/IC/TM	
RBE 11		NPT 3/8	45	84.5	14.5	32		RBE 11.7252/IC/TM/JE	RBE 11.6252/IC/TM	
RBE 19		NPT 3/4	60	123	19	41		RBE 19.7254/IC/TM/JE	RBE 19.6254/IC/TM	
		NPT 1	60	123	23.5	41		RBE 19.7255/IC/TM/JE	RBE 19.6255/IC/TM	

TM plugs

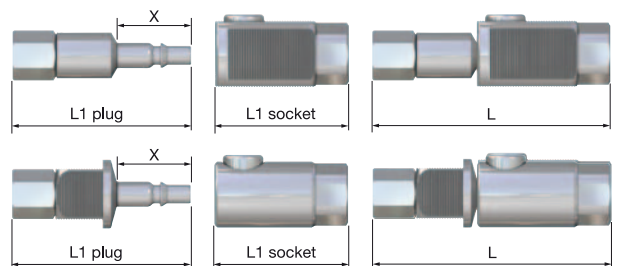
Description	Model	Tube I.D./O.D.	Dimensions (mm)				Plug part numbers		
			Ø	L1	L2	H1/flats	H2/flats	Valved	Unvalved
Plug for stainless steel tube 	RBE 03	1/4" O.D.	22	58		13	14	RBE 03.7753/IC/TM/JE	RBE 03.6753/IC/TM
		6 mm O.D.	22	58		13	14	RBE 03.7766/IC/TM/JE	RBE 03.6766/IC/TM
		8 mm O.D.	22	59		13	17	RBE 03.7768/IC/TM/JE	RBE 03.6768/IC/TM
	RBE 06	1/4" O.D.	27	79		17	14	RBE 06.7753/IC/TM/JE	RBE 06.6753/IC/TM
		6 mm O.D.	27	79		17	14	RBE 06.7766/IC/TM/JE	RBE 06.6766/IC/TM
		8 mm O.D.	27	79		17	17	RBE 06.7768/IC/TM/JE	RBE 06.6768/IC/TM
	RBE 08	3/8" O.D.	35	93		24	19	RBE 08.7755/IC/TM/JE	RBE 08.6755/IC/TM
		1/2" O.D.	35	90		24	22	RBE 08.7756/IC/TM/JE	RBE 08.6756/IC/TM
		10 mm O.D.	35	91		24	19	RBE 08.7770/IC/TM/JE	RBE 08.6770/IC/TM
		12 mm O.D.	35	92		24	22	RBE 08.7772/IC/TM/JE	RBE 08.6772/IC/TM
Plug for rubber hose 	RBE 03	4 mm I.D.	22	41	23	14		RBE 03.7804/IC/TM/JE	RBE 03.6804/IC/TM
		6 mm I.D.	22	41	23	14		RBE 03.7806/IC/TM/JE	RBE 03.6806/IC/TM
	RBE 06	6 mm I.D.	27	59	28	17		RBE 06.7806/IC/TM/JE	RBE 06.6806/IC/TM
		8 mm I.D.	27	59	28	17		RBE 06.7808/IC/TM/JE	RBE 06.6808/IC/TM
		10 mm I.D.	27	59	28	17		RBE 06.7810/IC/TM/JE	RBE 06.6810/IC/TM
	RBE 08	13 mm I.D.	27	59	33	17		RBE 06.7813/IC/TM/JE	RBE 06.6813/IC/TM
		8 mm I.D.	35	85	28	24		RBE 08.7808/IC/TM/JE	RBE 08.6808/IC/TM
		10 mm I.D.	35	85	28	24		RBE 08.7810/IC/TM/JE	RBE 08.6810/IC/TM
		13 mm I.D.	35	87	33	24		RBE 08.7813/IC/TM/JE	RBE 08.6813/IC/TM
	RBE 11	16 mm I.D.	35	92	33	24		RBE 08.7816/IC/TM/JE	RBE 08.6816/IC/TM
		13 mm I.D.	45	96	33	32		RBE 11.7813/IC/TM/JE	RBE 11.6813/IC/TM
		16 mm I.D.	45	101	33	32		RBE 11.7816/IC/TM/JE	RBE 11.6816/IC/TM
	RBE 19	19 mm I.D.	45	101	53	32		RBE 11.7819/IC/TM/JE	RBE 11.6819/IC/TM
		19 mm I.D.	60	139	53	41		RBE 19.7819/IC/TM/JE	RBE 19.6819/IC/TM
		25 mm I.D.	60	141	53	41		RBE 19.7825/IC/TM/JE	RBE 19.6825/IC/TM
Plug for plastic tube 	RBE 03	Ø 4/6 mm	22	55		13	11	RBE 03.7904/IC/TM/JE	RBE 03.6904/IC/TM
		Ø 6/8 mm	22	56		13	14	RBE 03.7906/IC/TM/JE	RBE 03.6906/IC/TM
	RBE 06	Ø 6/8 mm	27	91.5		17	14	RBE 06.7906/IC/TM/JE	RBE 06.6906/IC/TM
		Ø 8/10 mm	27	91		17	17	RBE 06.7908/IC/TM/JE	RBE 06.6908/IC/TM

Overall dimensions in connected position

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

Model	X (mm)
RBE 03	21
RBE 06	26.5
RBE 08	35.5
RBE 11	40
RBE 19	60.5

- **Configuration 1**
TM sockets for remote handling and TF fixed plugs
- **Configuration 2**
TF fixed sockets and TM plugs for remote handling



How to build your part numbers: page 14.

KES sealing kit: see part numbers page 15.

How to built your part numbers

2 connection configuration

Configuration 1:

- socket for remote handling (part numbers p. 6 and 7) and fixed plug (part numbers p. 8 and 9)

Configuration 2:

- fixed socket (part numbers p. 10 and 11) and plug for remote handling (part numbers p. 12 and 13)

2 socket construction

- standard: part numbers p. 6, 7, 10 and 11
- RS with lower connecting and disconnecting forces: add RS code to the socket part numbers p. 6, 7, 10 and 11

Shut-off

- **Double shut-off**
 - OD valved socket: part numbers p. 6, 7, 10 and 11
 - OD valved plug: part numbers p. 8, 9, 12 and 13
- **Single shut-off**
 - OD valved socket: part numbers p. 6, 7, 10 and 11
 - OS unvalved plug: part numbers p. 8, 9, 12 and 13
- **Full flow**
 - OS unvalved socket: replace OD code with OS code in the part numbers p. 6, 7, 10 and 11
 - OS unvalved plug: part numbers p. 8, 9, 12 and 13

Caution: Never combine an unvalved socket with a valved plug.

Tightness

- Ethylene-Propylene (EPDM) seal as standard: part numbers p. 6 to 13 (JE code)
- Ethylene-Propylene (EPDM) seal PMUC version: replace the JE code with the JE/UC code in the part numbers p. 6 to 13
- Fluorcarbon (FPM) seal: replace the JE code with the JV code in the part numbers p. 6 to 13
- Perfluoroelastomer (FFKM) seal: replace the JE code with the JK code in the part numbers p. 6 to 13



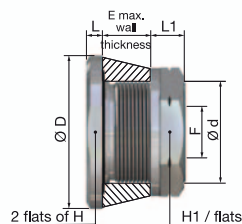
A Stäubli remote handling solution for each application

- **RBE/TM** for liquids and gases,
- Non-spill **MCB/TM** for liquids and gases,
- Very high pressure **THX/TM** for supply of hydraulic shears during dismantling in cells,
- Full-flow **UPB/TM** for contaminated fluid transfer.

Don't hesitate to call your Stäubli senior sales engineer to discuss the most suitable solution for your application meeting your specific requirements.

Sealed bulkhead fitting (stainless steel 316 series)

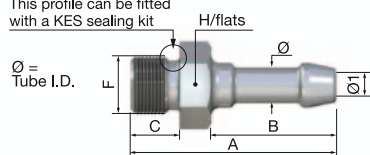
Supplied with 2 tightness types: O-ring seal and KES sealing kit



End connection F	Dimensions (mm)							Part numbers	
	Ø D	L	H/flats	L1	H1/flats	Ø d	E max.	Ethylene-Propylene seal	Fluorocarbon seal
G 1/4	44	5	40	10.5	35	M 28 x 1	10	N 007 104 65	N 004 248 87
G 3/8	44	5	40	10.5	35	M 28 x 1	13.5	N 001 133 67	N 004 249 87
G 1/2	48	5	45	11	35	M 32 x 1	15	N 004 739 07	N 004 740 07

Threaded hose tails for rubber hose (stainless steel 316 series)

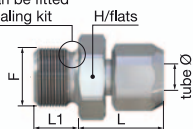
This profile can be fitted with a KES sealing kit



End connection Thread F	Tube I.D. (mm)	Dimensions (mm)					Part numbers
		A	B	C	Ø 1	H/flats	
G 1/4	6	46	28	11	4	17	AF 151.06/IC
G 1/4	8	46	28	11	5.5	17	AF 151.08/IC
G 1/4	10	46	28	11	7	17	AF 151.10/IC

Threaded hose tails for plastic tube (stainless steel 316 series)

This profile can be fitted with a KES sealing kit



End connection Thread F	Tube I.D./O.D. (mm)	Dimensions (mm)			Part numbers
		L	L1	H/flats	
G 1/4	4/6	19	10	17	AF 151.04/IC/PL
G 1/4	6/8	19	10	17	AF 151.06/IC/PL
G 1/4	8/10	21	10	17	AF 151.08/IC/PL
G 1/4	10/12	22	10	19	AF 151.10/IC/PL

Weld adapters



For details of our weld adapters see leaflet P 002.

KES sealing kit (stainless steel 316 series)

Retaining ring + O-ring seal	Thread F	Part numbers with Ethylene-Propylene seal
	G 1/4	KES 01.9101/IC/JE
	G 3/8	KES 01.9102/IC/JE
	G 1/2	KES 01.9103/IC/JE
	G 3/4	KES 01.9104/IC/JE
	G 1	KES 01.9105/IC/JE
	G 1 1/4	KES 01.9106/IC/JE

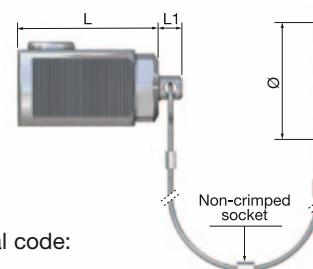
Part numbers that are compatible with this option are indicated with the symbol in the part number tables on pages 6 and 13. Find all our KES rings in the KES P 003 brochure.

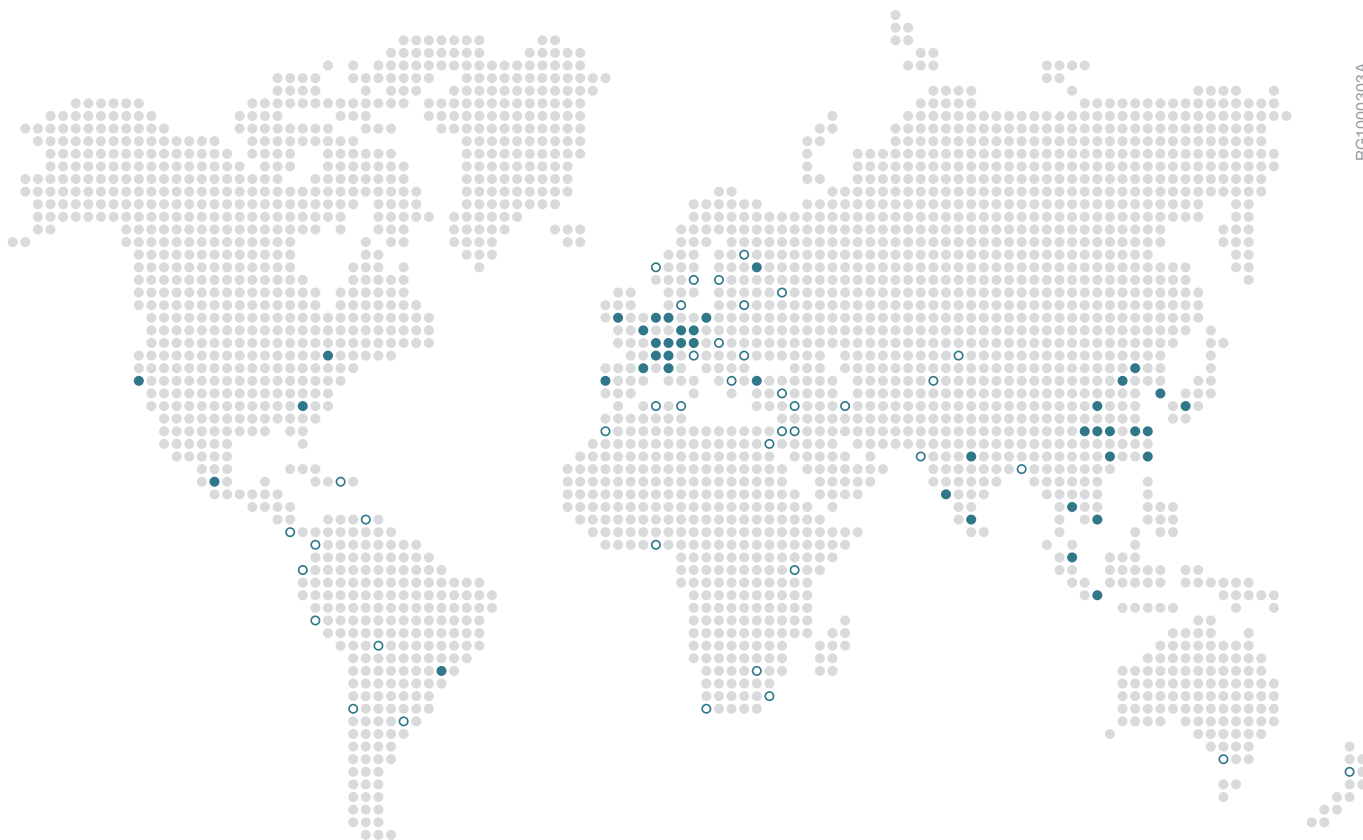
Other seal material for KES seals and plug caps: replace the JE code with the corresponding seal code:

- Ethylene-Propylene PMUC version: JE/UC code
- Fluorocarbon (FPM): JV code
- Perfluoroelastomer (FFKM): JK code

Plug caps for remote handling (mainly stainless steel 316 series)

Model	Dimensions			Part numbers
	L	L1	Ø	
RBE 06/TM	47.5	8	40	RBE 06.1000/IC/TM/VD /JE/OS
RBE 08/TM	60	8	40	RBE 08.1000/IC/TM/VD /JE/OS
RBE 11/TM	69	8	40	RBE 11.1000/IC/TM/VD /JE/OS





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