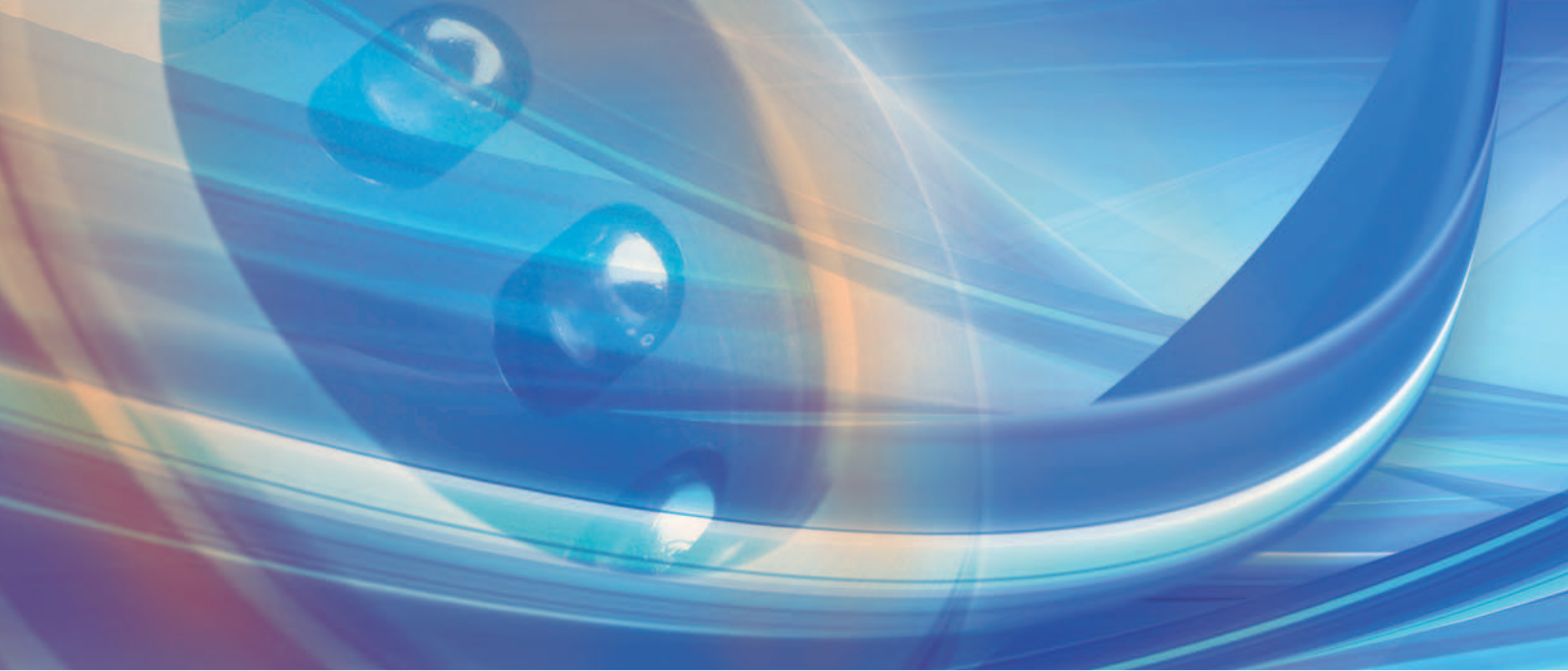


RME
Thermal Management - Lubrication





Ø 09, 12, 16, 20 and 25 mm

Fluids

- coolant
- water, glycol water
- heat transfer oils
- lubricating oils
- esters
- gases
- ...

Applications

- > cooling of electronics in power converters
- > temperature control devices in plastic injection
- > cooling systems for UV lamps on offset machines (packaging, drying, sterilization ...)
- > main power circuit for water
- > supply of fuel gas (methane) for preheating of the moulds in aluminium foundry
- > filling with insulating gas SF 6 on electrical transformers

Safety and performance ...

Safety

RME couplings are leak tight on connection and disconnection.

On insertion of the plug into the socket sealing takes place before the opening of the valves which avoids the need to purge circuits and any contamination of fluid.

RME couplings are particularly suitable for:

- hot oil circuits: no ejection of fluid on the operator,
- converters: no spray of fluid into powered devices,
- very low amounts of gas are released into the atmosphere.

Reliable and robust

The choice of materials gives RME couplings robustness and reliability as well as increased resistance to corrosion in the presence of liquids and cooling water additives.

Safe and quick locking

With a large number of locking balls.



... right down the line

Easy to handle

The long knurled locking ring ensures easier handling for quick and easy connections and disconnections.

The VP option has a wide shoulder locking ring for an even easier gripping.

Performance

Due to their internal design, the RME couplings have an excellent flow/pressure drop ratio providing optimum flow in compact overall dimensions.

Protected elements

A version fitted with a Chloroprene protector (PP option) is available on all models of sockets and plugs.

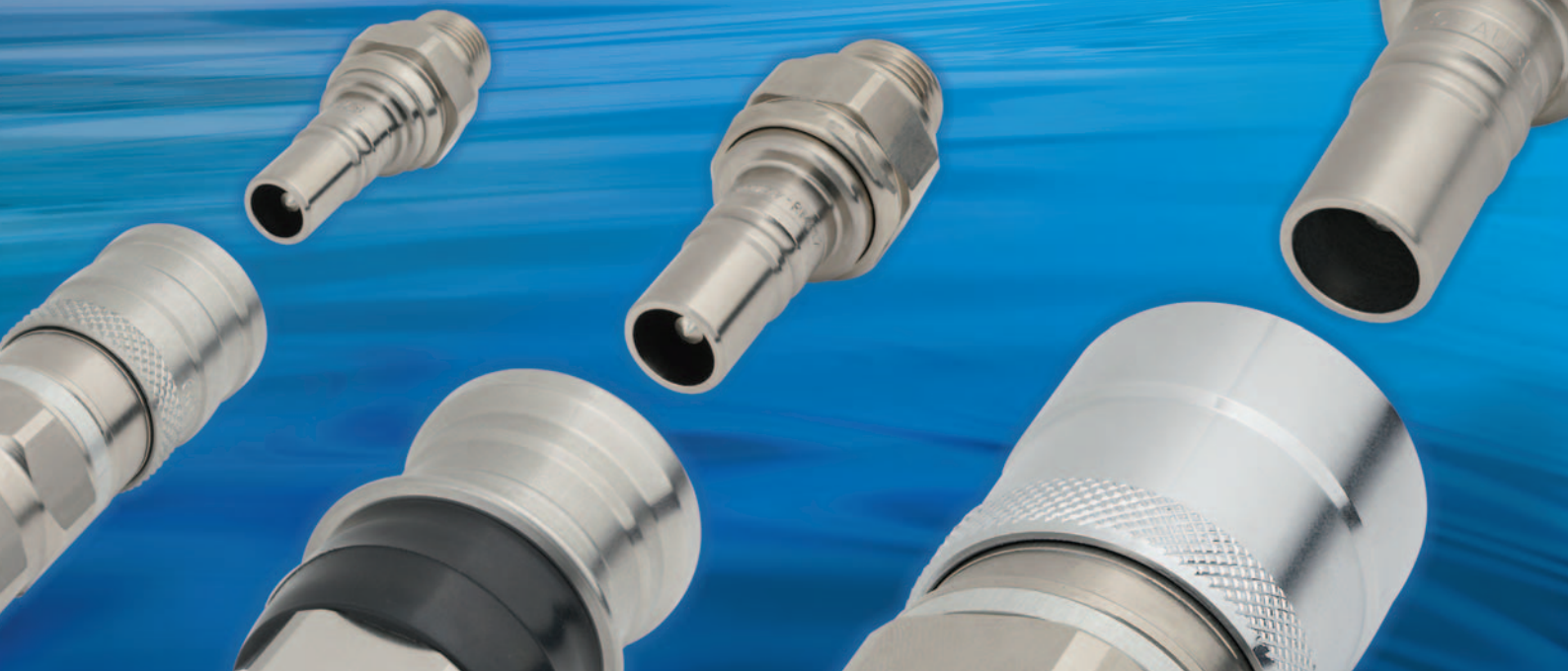
Immediate visual circuit identification

Red and blue rings provide quick and easy identification of your hot and cold water circuits.





3D-files available on request

for a seamless integration of connections to your project right from the start of the design stage.

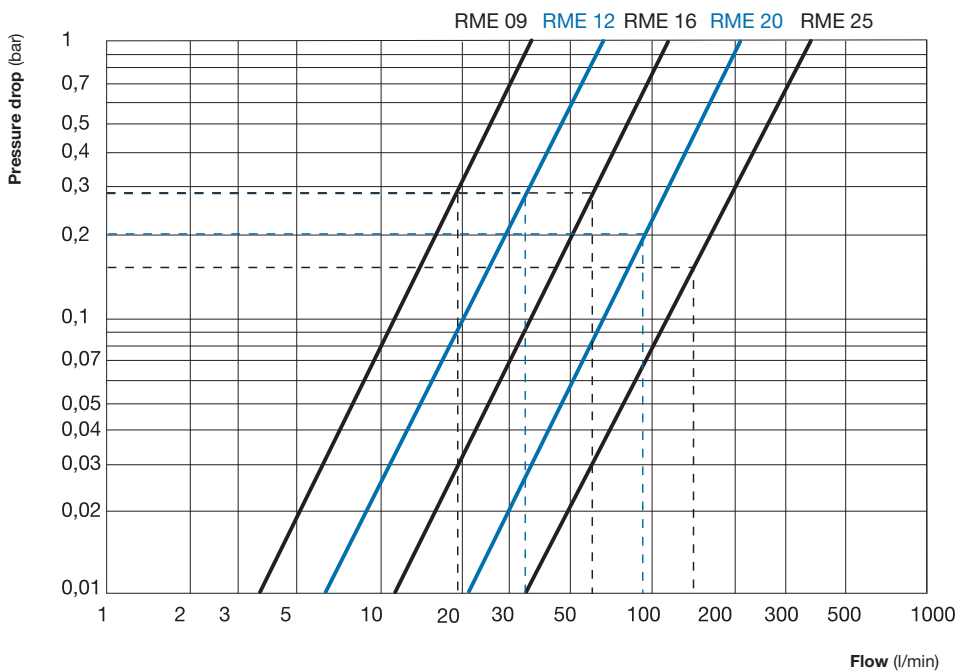




Technical data

	RME 09	RME 12	RME 16	RME 20	RME 25
Max. working pressure (bar)					
- max. working temperature <150 °C	16	16	16	16	16
- max. working temperature >150 °C	10	10	10	10	10
Bore diameter (mm)	09	12	16	20	25
Shut-off	double				

Hydraulic flow rate / pressure drop charts



Test conditions:

- Fluid: water
- Direction of flow: socket → plug

Construction

Brass and stainless steel with surface treatment.

Type of seal	Code	Working temperature (°C)
Nitrile (NBR)	standard	- 15 to + 100 °C
Fluorocarbon (FPM)	JV	- 10 to + 200 °C
Ethylene-Propylene (EPDM) *	JE	- 20 to + 150 °C
Perfluoroelastomer (FFKM) in the fluid jet The seals outside the fluid jet are in Fluorocarbon (FPM)	JKV	0 to + 250 °C
Fluorosilicone (FMQ)	JS3	- 40 to + 175 °C (down to - 50 °C depending on the fluid)

The RME couplings are delivered with Nitrile seals as standard.

For any other type of seal, add the corresponding code to the part-numbers pages 6 and 7.

Ex. : RME 09.1152/JV for a RME socket with Fluorocarbon seal

*** Important!**

Never use Ethylene-Propylene seals with fluids of mineral origin (oil, fat etc...).

Recommendation

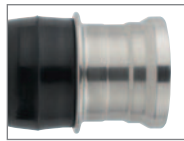
The working temperatures and pressures are given for the Stäubli plug/socket set alone.

It is essential to ensure that the other components of the circuit (hoses, end connections...) are also appropriate for the application.

Options

Chloropren protector

- Max. working temperature: 100 °C
 - Part-numbers: add the code **PP** to the part-numbers pages 6 and 7.
- Ex.: RME 09.1152/PP



Protective dust caps

Available for all the models.

- Max. working temperature: 100 °C



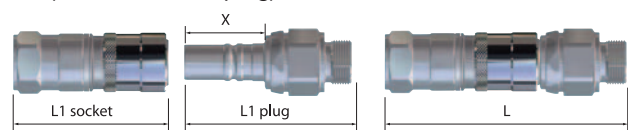
- Socket dust cap part-number: **RME xx.8500**
- Plug dust cap part-number: **RME xx.8550**

Replace **xx** with the passage flow diameter of the socket and plug.

Ex.: RME 09.8500 = 9 mm passage flow diameter socket dust cap.

Overall length in coupled position

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



Model	X (mm)	Model	X (mm)
RME 09	28,5	RME 09/PP and /VP	32,2
RME 12	35,5	RME 12/PP and /VP	39,1
RME 16	47	RME 16/PP and /VP	50
RME 20	60	RME 20/PP and /VP	62,5
RME 25	69,6	RME 25/PP and /VP	72,6

Coloured rings

Available for all the models, standard and VP versions.

- Part-numbers: add the corresponding colour code to the part-numbers of the sockets and plugs:

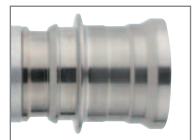
KB : blue ring

KR : red ring

Ex.: RME 12.1153/KB - RME 12.1153/VP/KB

Enhanced shoulder locking ring

- Part-numbers: add the **VP** code to the sockets part-numbers page 6.
- Ex.: RME 09.1152/VP



KES sealing-kit

Possible on all the BSP parallel male threads.



- Part-numbers of the KES sealing-kits:

G 3/8 KES 01.9102

G 1/2 KES 01.9103

G 3/4 KES 01.9104

G 1 KES 01.9105

G 1 1/4 KES 01.9106



Available in 4 different types of seals:

No code: Nitrile seals

JV code: Fluorocarbon seals

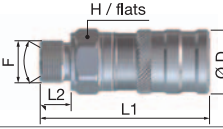
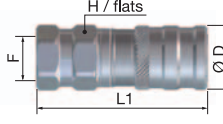
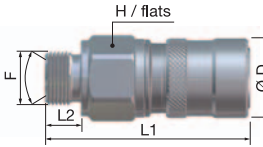
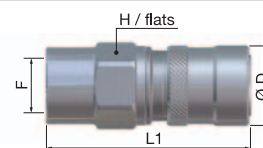
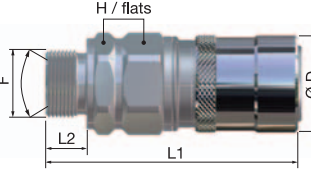
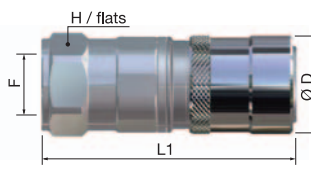
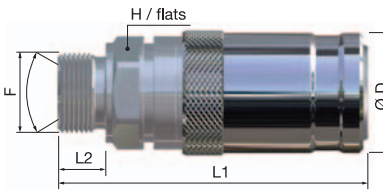
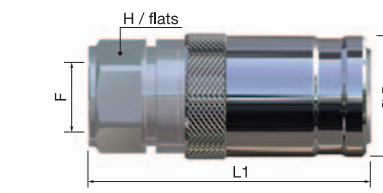
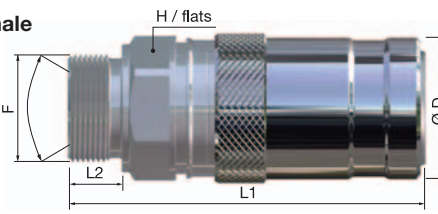
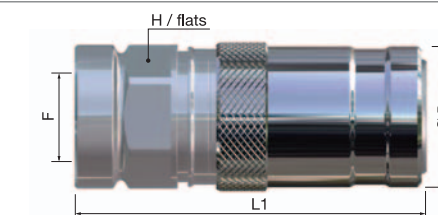
JE code: Ethylene-Propylene seals

JS3 code: Fluorosilicone seals

For the sockets and plugs with Fluorosilicone seals, use the **JV** code.

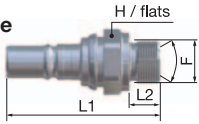
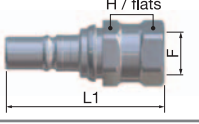
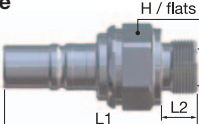
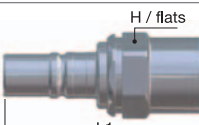
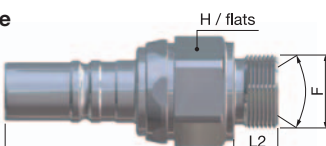



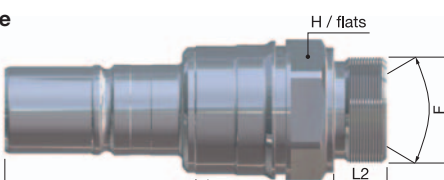
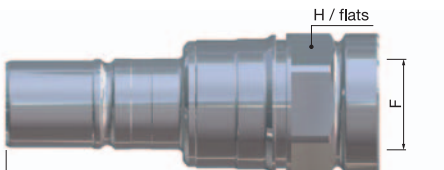
Ex.: KES 01.9102/JV.

Sockets

Model	Designation	End connection F	Dimensions (mm)				Part-numbers
			ØD	L1	L2	H/flats	
RME 09	<ul style="list-style-type: none"> Parallel male thread 	G 3/8 60° cone	Ø 25	66	12	23	RME 09.1152
		M 18 x 1,5 24° cone for tube Ø 12 mm	Ø 25	65	11	23	RME 09.1612
	<ul style="list-style-type: none"> Female thread 	G 3/8	Ø 25	66,5		23	RME 09.1102
		NPT 3/8	Ø 25	65		23	RME 09.1202
RME 12	<ul style="list-style-type: none"> Parallel male thread 	G 1/2 60° cone	Ø 31	80	14	30	RME 12.1153
		M 26 x 1,5 24° cone for tube Ø 18 mm	Ø 31	74	12	30	RME 12.1618
	<ul style="list-style-type: none"> Female thread 	G 1/2	Ø 31	80		30	RME 12.1103
		NPT 1/2	Ø 31	79		30	RME 12.1203
RME 16	<ul style="list-style-type: none"> Parallel male thread 	G 3/4 60° cone	Ø 38	100	16	36	RME 16.1154
		M 30 x 2 24° cone for tube Ø 22 mm	Ø 38	98	14	36	RME 16.1622
	<ul style="list-style-type: none"> Female thread 	G 3/4	Ø 38	99		36	RME 16.1104
		NPT 3/4	Ø 38	100		36	RME 16.1204
RME 20	<ul style="list-style-type: none"> Parallel male thread 	G 1 60° cone	Ø 50	129	20	42	RME 20.1155
		M 36 x 2 24° cone for tube Ø 28 mm	Ø 50	123	14	42	RME 20.1628
	<ul style="list-style-type: none"> Female thread 	G 3/4	Ø 50	117		42	RME 20.1104
		G 1	Ø 50	117		42	RME 20.1105
		NPT 1	Ø 50	117		42	RME 20.1205
RME 25	<ul style="list-style-type: none"> Parallel male thread 	G 1 1/4 60° cone	Ø 55	139	21	50	RME 25.1156
		M 45 x 2 24° cone for tube Ø 35 mm	Ø 55	134	16	50	RME 25.1635
	<ul style="list-style-type: none"> Female thread 	G 1	Ø 55	137		50	RME 25.1105
		G 1 1/4	Ø 55	137		50	RME 25.1106
		NPT 1 1/4	Ø 55	134		50	RME 25.1206

BSP parallel male thread with 60° cone: profile according to the ISO 8434-6 standard. Metric male thread with 24° cone: profile according to the ISO 8434-1/L standard.

Plugs

Model	Designation	End connection F	Dimensions (mm)				Part-numbers
			ØD	L1	L2	H/flats	
RME 09	<ul style="list-style-type: none"> Parallel male thread 	G 3/8 60° cone	60	12	23	RME 09.7152	
		M 18 x 1,5 24° cone for tube Ø 12 mm	59	11	23	RME 09.7612	
	<ul style="list-style-type: none"> Female thread 	G 3/8	62		23	RME 09.7102	
		NPT 3/8	61		23	RME 09.7202	
RME 12	<ul style="list-style-type: none"> Parallel male thread 	G 1/2 60° cone	75	14	30	RME 12.7153	
		M 26 x 1,5 24° cone for tube Ø 18 mm	71,5	12	30	RME 12.7618	
	<ul style="list-style-type: none"> Female thread 	G 1/2	76,5		30	RME 12.7103	
		NPT 1/2	74,5		30	RME 12.7203	
RME 16	<ul style="list-style-type: none"> Parallel male thread 	G 3/4 60° cone	99	16	36	RME 16.7154	
		M 30 x 2 24° cone for tube Ø 22 mm	95	14	36	RME 16.7622	
	<ul style="list-style-type: none"> Female thread 	G 3/4	99		36	RME 16.7104	
		NPT 3/4	98		36	RME 16.7204	
RME 20	<ul style="list-style-type: none"> Parallel male thread 	G 1 60° cone	138,5	20	42	RME 20.7155	
		M 36 x 2 24° cone for tube Ø 28 mm	132,5	14	42	RME 20.7628	
	<ul style="list-style-type: none"> Female thread 	G 3/4	126,5		42	RME 20.7104	
		G 1	126,5		42	RME 20.7105	
NPT 1		129,5		42	RME 20.7205		
RME 25	<ul style="list-style-type: none"> Parallel male thread 	G 1 1/4 60° cone	151,5	21	50	RME 25.7156	
		M 45 x 2 24° cone for tube Ø 35 mm	147,5	16	50	RME 25.7635	
	<ul style="list-style-type: none"> Female thread 	G 1	148,5		50	RME 25.7105	
		G 1 1/4	148,5		50	RME 25.7106	
NPT 1 1/4		145,5		50	RME 25.7206		

For contact details: www.staubli.com/connectors/contacts



Global presence of the Stäubli Group

- Stäubli units
- Agents

International sales coordination

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www.staubli.com

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