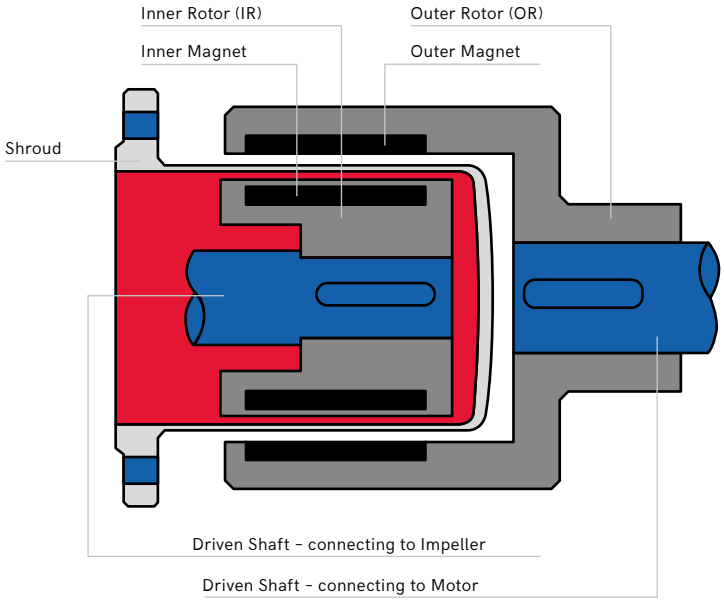
▸ Magnet coupling Magnetkupplung



What is magnet coupling

Magnet coupling is used to transfer the power from a motor to impeller without any direct touch.

The motor will drive the outer rotor rotates. With magnets' rebelling and attracting force, the inner rotor does synchronously rotate with outer rotor. Outer rotor and inner rotor don't touch each other directly. Finally the inner rotor will drive the impeller rolling.

The shroud will seal the inner rotor and medium inside the pump, preventing the toxic or corrosion medium going outside the pump.

Was ist eine Magnetkupplung

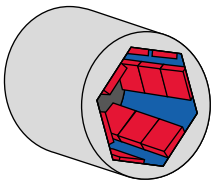
Die Magnetkupplung wird verwendet, um die Kraft vom Motor zur Antriebswelle ohne direkte Berührung zu übertragen.

Der Motor treibt den äußeren Rotor an. Durch die abstoßende bzw. anziehenden Kraft der Magnete dreht sich der innere Rotor synchron mit dem äußeren Rotor, ohne dass sich die beiden berühren. Schließlich treibt der Innenrotor die Antriebswelle an.

Der Spalttopf dichtet den inneren Rotor und das Medium in der Pumpe ab und verhindert, dass ein giftiges oder korrosives Medium aus der Pumpe austritt.

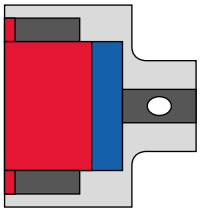
▸ Types of OR and IR OR- und IR-Typen

Outer Rotor (OR)



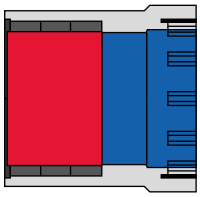
1

Standard



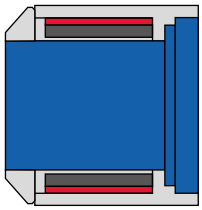
2

With envelope



3

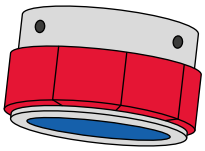
With fulling glue



4

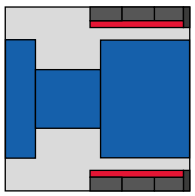
All sealed by welding

Inner Rotor (IR)



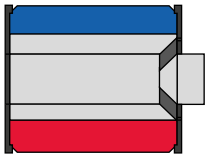
5

Standard



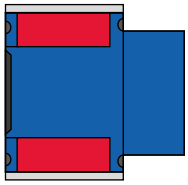
6

Sealed by envelope



7

Fixed by side cover



8

Plastic sheel

▸ Mix and match Material- & Kombinationsmöglichkeiten

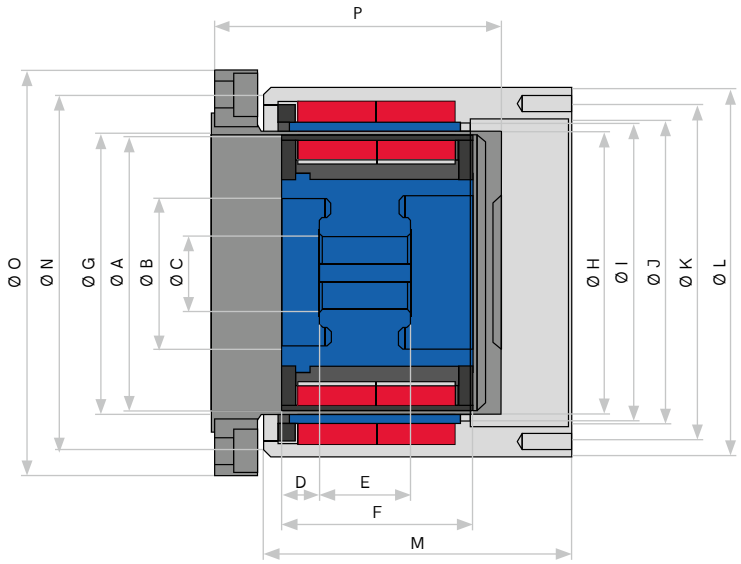
OR/IR

COMBINATION TYPE	OR-MATERIAL	IR-MATERIAL	APPLIED TO CONDITION
OR1 + IR5	Carbon Steel	Carbon Steel	Medium environment, minimal corrosion
OR2/3/4 + IR6/7	Carbon Steel	Stainless Steel	acid
OR2/3/4 + IR8	Carbon Steel	Plastic	alkali

Isolation Can

MATERIAL	THICKNESS	PRESSURE	COST
Stainless Steel	1-1.2 mm	1-2 Mpa	**
Hastelloy	1-1.2 mm	1-3 Mpa	****
Titanium	1-1.8 mm	3-8 Mpa	***
Plastic	1-2.0 mm	1-5 Mpa	*

▸ Dimensions Maße



TYPE	NOM. TORQUE	OVER LOAD	INNER ROTOR (MM)					OUTER ROTOR (MM)					SEALING CAN/FLANGE (MM)					
			A	B	C	D	E	F	I	J	K	L	M	G	H	N	O	P
NMCC03	3	4,5	42	20	10	5	15	25	49	52	M5	68	50	44	46	6,6	80	57
NMCC08	8	12	58	26	12	10	18	35	66	70	M5	90	65	60	62	6,6	96	67
NMCC16	16	26	58	26	14	30	20	62	66	70	M6	90	95	60	62	6,6	96	94
NMCC22	22	35	88	50	20	10	30	50	97	100	M6	120	85	90	92	8,6	132	82
NMCC30	30	48	88	50	24	20	30	62	97	100	M6	120	100	90	92	8,6	132	94
NMCC50	50	80	122	80	30	10	30	60	132	136	M8	164	85	126	128	8,6	176	88
NMCC65	65	100	122	80	30	20	30	65	132	136	M8	164	100	126	128	8,6	176	104
NMCC80	80	130	142	90	35	20	30	65	152	156	M8	184	100	146	148	10,8	208	106
NMCC110	110	165	142	90	35	30	30	80	152	156	M8	184	115	146	148	10,8	208	122
NMCC140	140	210	142	90	40	40	40	110	152	156	M10	190	145	146	148	10,8	208	152
NMCC180	180	290	142	90	40	60	50	140	152	156	M10	190	180	146	148	10,8	208	182
NMCC220	220	330	142	90	48	70	60	160	152	156	M10	190	200	146	148	10,8	208	204
NMCC280	280	380	142	90	48	90	60	180	152	156	M10	190	230	146	148	10,8	208	224
NMCC320	320	430	164	110	50	90	60	190	174	178	M12	214	230	168	170	10,8	230	240
NMCC380	380	500	164	110	50	100	80	240	174	178	M12	214	280	168	170	10,8	230	290
NMCC500	500	650	186	130	60	115	90	300	196	190	M12	240	300	190	192	10,8	250	310