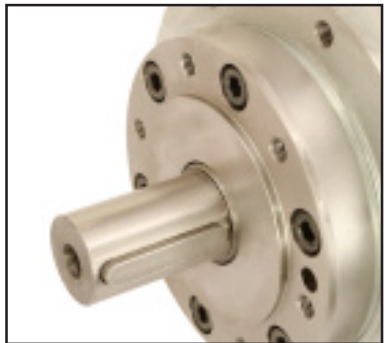


HYDRAULIC DRIVES FOR THE SPECIALIST RADIAL PISTON MOTORS TYPE SFM SERIES 1 AND 2

HYDRAULIC 

ATEX
Guideline 94/9 EC

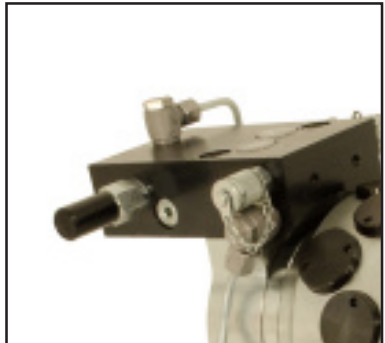
MAX. PRESSURE
315/400 BAR



SHAFT TYPE

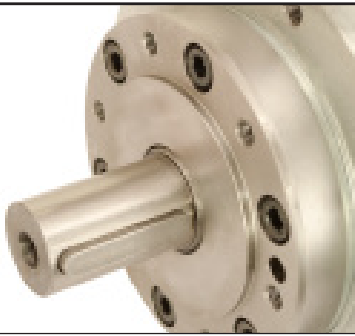


HYDRAULIC CONNECTION



CONTROL

MOTOR FEATURES



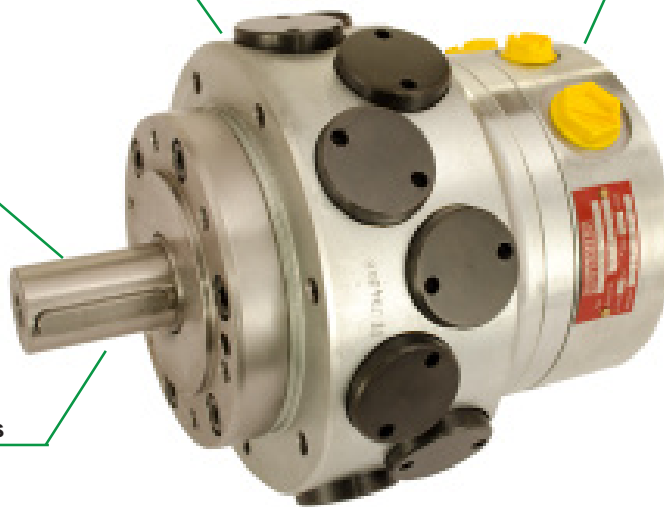
Key shaft, spline shaft or special shaft design on request



Spotface connection or optional mounting flange connection



Optional radial or axial hydraulic connection



ATEX-Safety Class

● HIGH ACCURACY CONTROL SYSTEM

The control cross sections are opened and closed within a rotation angle of 180°. Thus, the control cross section refers clearly to the rotation angle of the motor shaft. High spots of compression and decompression are reduced.

● LONG SERVICE LIFE

Service life is optimized by constant internal wear of the translational control (same speed at all points of the control disc surface).

● SELF CLEANING EFFECT

Particles are not sucked into the sealing gap of the sliding surfaces, but they are repelled by the sealing edges.

● HIGH UNIFORMITY

Maximum uniformity based on optimum control adjustments up to 97,5%.

● HIGH TEMPERATURE SHOCK RESISTANT

Automatic balance of pressure and temperature influences, which is controlled by spring preloaded pressure of the pressure regulating device.

● ROTARY GROUP BEARINGS

High quality preloaded roller bearings for heavy duty applications in X-setup allow high axial and radial forces.

● HIGH EFFICIENCY

Volumetric efficiency up to 99% and mechanical efficiency up to 95%.

● HYDROSTATIC BALANCE

Hydrostatic discharge of the pistons ensures optimal protection against wear of the radial piston motor.

● PRESSURE LIQUID MEDIUMS

The motors can be modified for HF-emulsions (on request).

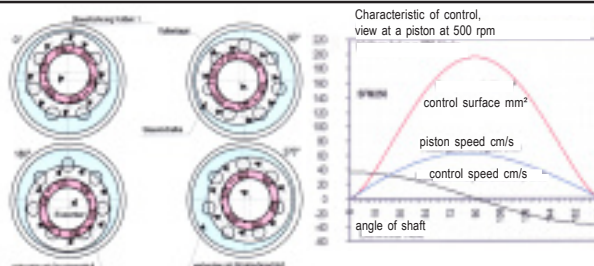
● OPTIONS

Models incl. measuring shaft, rev. transmitter, modular control valve block, brakes, gear boxes and more.

TECHNICAL DATA

Type SFM Series 1 and 2 from 12 up to 255 cm³

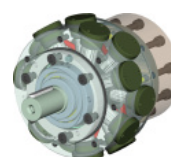
The radial piston motors Type SFM Series 1 and 2 of SPITZNAS are based on the principle of externally pressured motors with revolving valve and are used in stationary and mobile applications.



Radial piston motor type SFM series 1

The range of the solid radial piston motors of series 1 is from 12 to 110 ccm volume flow.

Different shaft types are available for individual applications.

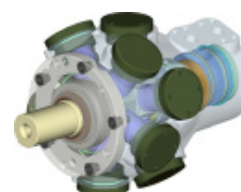


Order no.	ATEX Guideline 94/9 EC	Geometrical capacity ccm	Working pressure bar	Max. pressure bar	Max. speed for low speed type/ high speed type 1/min	Specific torque Nm/bar	Sealing material	Shaft type	Connection	Weight without oil filling kg
R-1001-0120	IM2cT6	12	160	315	850/1,300	0.20	NBR	Passfeder	G 1/2"female	12.5
R-1A42-0120	IM2cT6	12	160	315	850/1,300	0.20	VITON	Zahnwelle	G 1/2"female	12.7
R-1001-0220	IM2cT6	22	160	315	850/1,500	0.35	NBR	Passfeder	G 1/2"female	17.8
R-1A42-0220	IM2cT6	22	160	315	850/1,500	0.35	VITON	Zahnwelle	G 3/4"female	17.8
R-1001-0330	IM2cT6	33	160	315	850/1,500	0.52	NBR	Passfeder	G 1/2"female	18.0
R-1A42-0330	IM2cT6	33	160	315	850/1,500	0.52	VITON	Zahnwelle	G 3/4"female	18.0
R-1001-0440	IM2cT6	44	160	315	650/1,200	0.69	NBR	Passfeder	G 1/2"female	19.0
R-1A42-0440	IM2cT6	44	160	315	650/1,200	0.69	VITON	Zahnwelle	G 3/4"female	19.0
R-1001-0660	IM2cT6	66	160	315	650/1,200	1.00	NBR	Passfeder	G 1/2"female	19.2
R-1A42-0660	IM2cT6	66	160	315	650/1,200	1.00	VITON	Zahnwelle	G 3/4"female	19.2
R-1001-0890	IM2cT6	89	140	250	550/900	1.40	NBR	Passfeder	G 1/2"female	22.0
R-1A42-0890	IM2cT6	89	140	250	550/900	1.40	VITON	Zahnwelle	G 3/4"female	22.0
R-1001-1100	IM2cT6	110	140	250	450/750	1.80	NBR	Passfeder	G 1/2"female	22.2
R-1A42-1100	IM2cT6	110	140	250	450/750	1.80	VITON	Zahnwelle	G 3/4"female	22.2

Other types on request.

Radial piston motor type SFM series 2

The powerful radial piston motors of series 2 are available with volume flow from 85 to 255 ccm. Select the appropriate shaft type for your individual application.



Order no.	ATEX Guideline 94/9 EC	Geometrical capacity ccm	Working pressure bar	Max. pressure bar	Max. speed 1/min	Spezific torque Nm/bar	Sealing material	Shaft type	Connection type	Weight without oil filling kg
R-2001-0850	IM2cT6	85	250	400	800	1.30	NBR	key shaft	flange	42.0
R-2A43-0850	IM2cT6	85	250	400	800	1.30	VITON	spline shaft	internal thread	42.0
R-2001-1300	IM2cT6	130	200	350	600	2.00	NBR	key shaft	flange	42.0
R-2A43-1300	IM2cT6	130	200	350	600	2.00	VITON	spline shaft	internal thread	42.0
R-2001-1650	IM2cT6	165	250	400	800	2.60	NBR	key shaft	flange	60.0
R-2A43-1650	IM2cT6	165	250	400	800	2.60	VITON	spline shaft	internal thread	60.0
R-2001-2550	IM2cT6	255	200	350	600	4.00	NBR	key shaft	flange	60.0
R-2A43-2550	IM2cT6	255	200	350	600	4.00	VITON	spline shaft	internal thread	60.0

Other types on request.

PRODUCT RANGE

MOTOR WITH GEAR

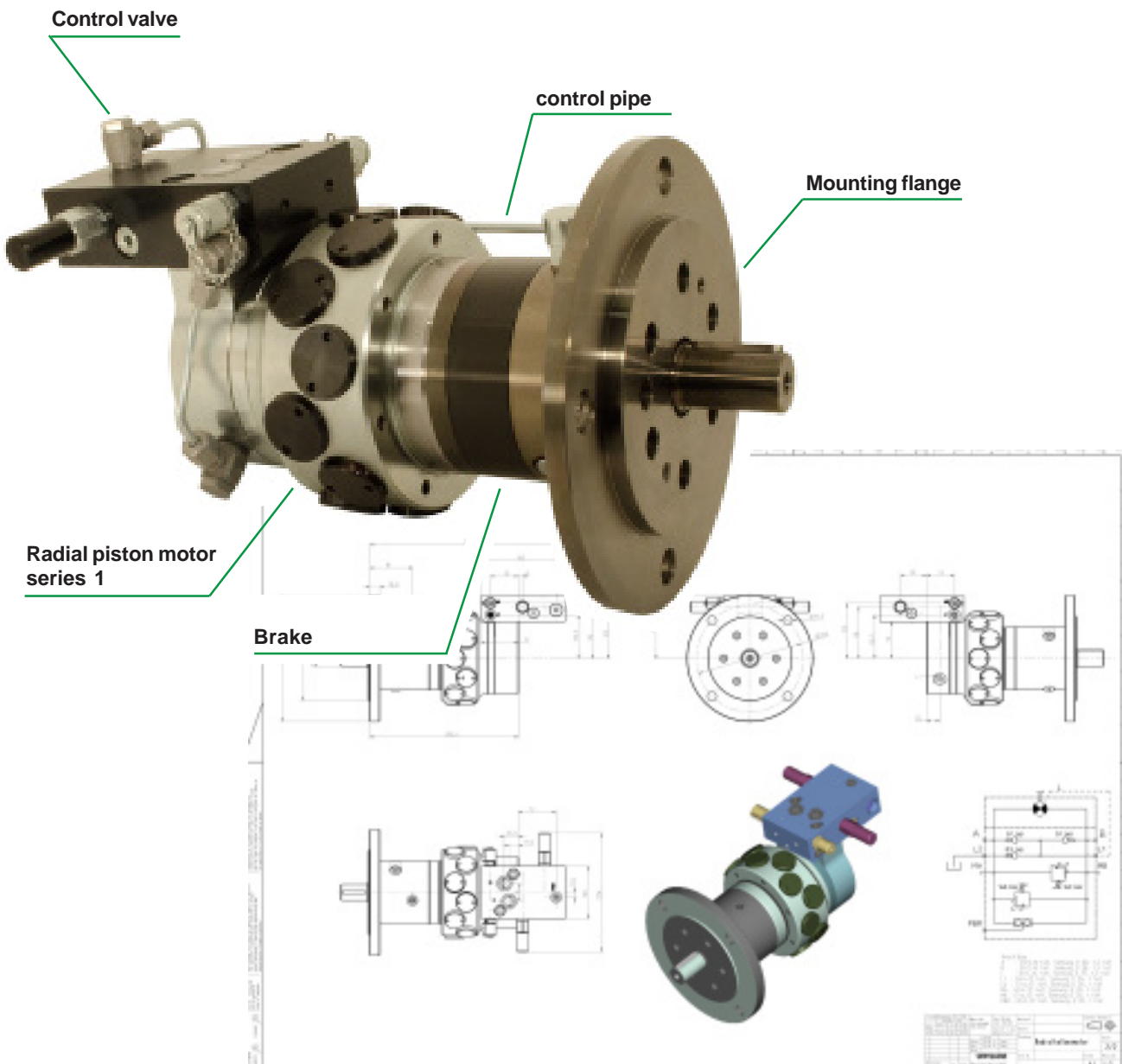
MOTOR WITH BRAKE

MOTOR WITH GEAR AND BRAKE

MOTOR WITH CONTROL

The hydraulic radial piston motors are customized.

We assemble individually the required gear, brake and control unit and agree with you upon the required parameters like shaft type, flange connections and hydraulic connections.



SPITZNAS

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09/13E

Subject to change without notice.