

Brass rotary vane pumps PO 70-400 series



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The rotary vane pumps, manufactured by Fluid-o-Tech® and sold worldwide under the trademark Rotoflow®, are volumetric pumps designed for pumping water and moderate aggressive liquids with low flow at high pressure.

Technical features and manufacturing characteristics

The rotary vane pump is brass made with a stainless steel AISI 303 rotor, while the pumping chamber and the vanes are in carbon graphite. The inlet and outlet ports are 3/8" GAS or NPT threaded. The pumps are designed to be directly mounted to the motor with a stainless steel clamp. For different mounting arrangements see our technical info "optional mountings". Maximum operative temperature: 70 °C (158 F).

Available upon request:

- Viton®/EPDM seals
- Built-in relief valve
- Built-in 100 mesh strainer
- Flange mount
- California AB 1953 compliant brass

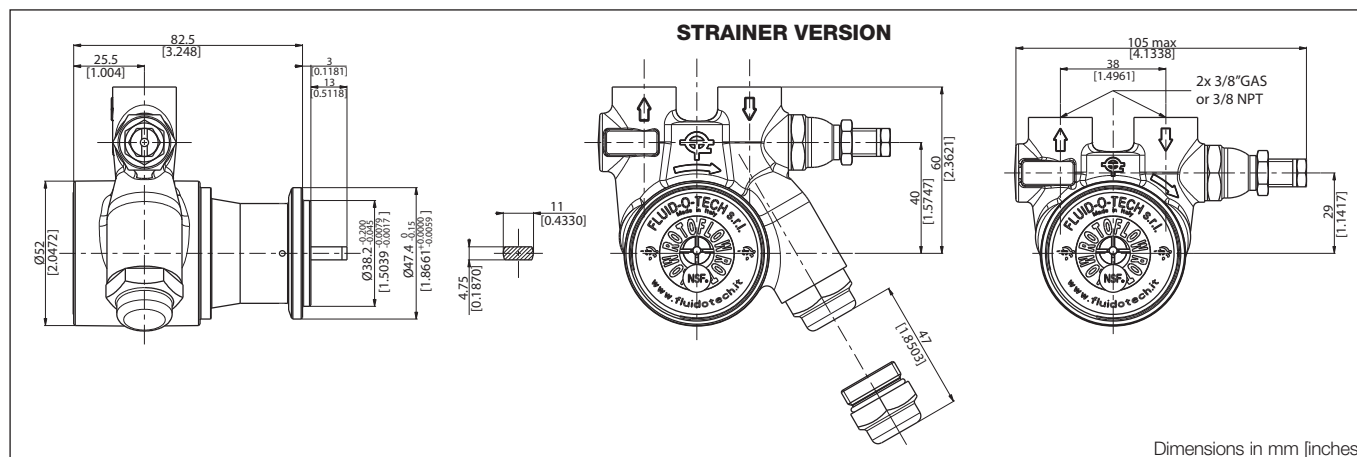


MAIN APPLICATIONS

- Beverage vending machines
- Post mix drink dispensers
- Espresso coffee machines
- Water treatment
- Water dispensers
- Cooling systems

TECHNICAL INFORMATION

Pump housing material	Brass	Max static pressure	20 bar/290 psi
Pumping chamber	Carbon graphite	Pump weight (clamp mount)	w/o strainer 1.1 kg (2.5 lb)
Ports	3/8" GAS or NPT		w strainer 1.3 kg (2.9 lb)
Speed limit	1725 rpm		

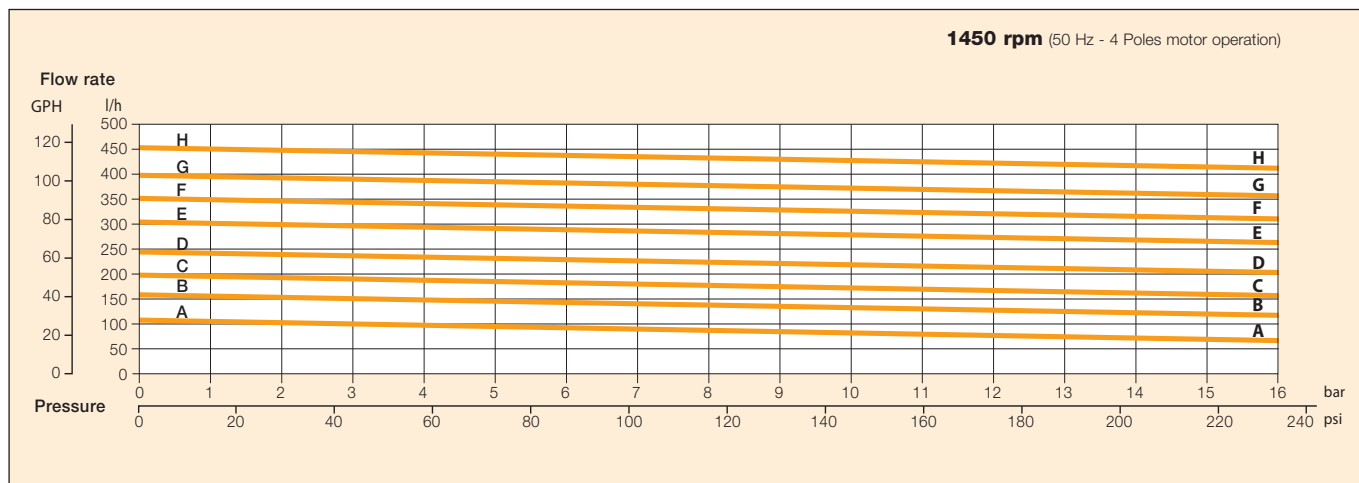


Dimensions in mm [inches]

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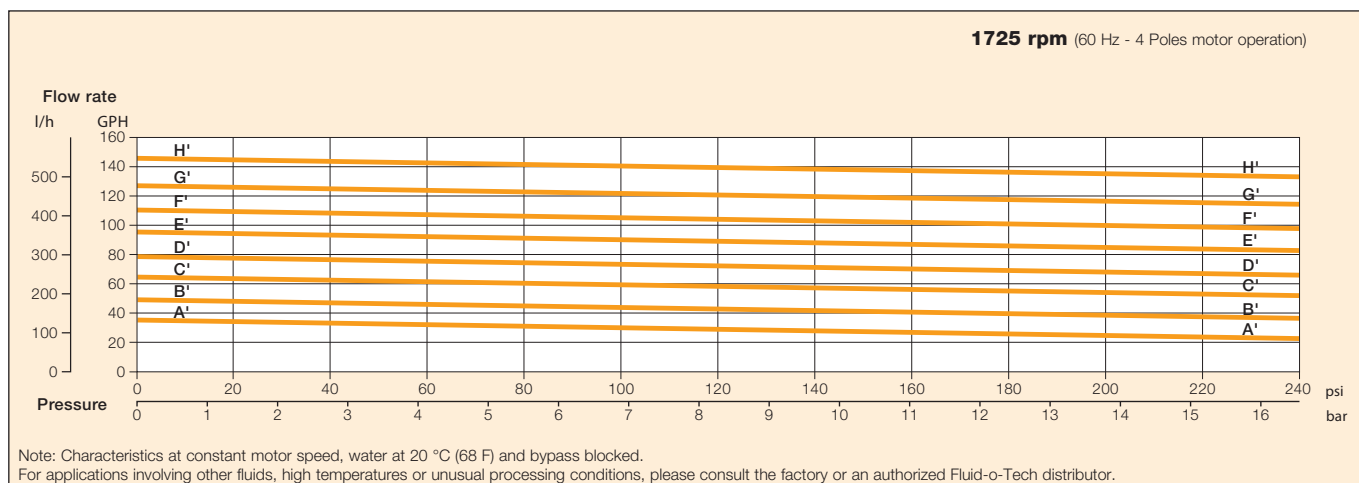
Model	P0/PA/PW	070	071	074	071x	074x	100	101	104	101x	104x	1500	1501	1504	1501x	1504x	200	201	204	201x	204x
Figure				A-A						B-B									D-D		
Relief valve		NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL
Strainer		NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES

Model	P0/PA/PW	2500	2501	2504	2501x	2504x	300	301	304	301x	304x	3500	3501	3504	3501x	3504x	400	401	404	401x	404x
Figure				E-E						F-F									H-H		
Relief valve		NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL
Strainer		NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES



Model	P0/PA/PW	070	071	074	071x	074x	100	101	104	101x	104x	1500	1501	1504	1501x	1504x	200	201	204	201x	204x
Figure				A'-A'						B'-B'									D'-D'		
Relief valve		NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL
Strainer		NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES

Model	P0/PA/PW	2500	2501	2504	2501x	2504x	300	301	304	301x	304x	3500	3501	3504	3501x	3504x	400	401	404	401x	404x
Figure				E'-E'						F'-F'									H'-H'		
Relief valve		NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL	NO	STD	BAL	STD	BAL
Strainer		NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES



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Fluid-o-Tech srl
Via Leonardo da Vinci, 40
20094 Corsico, Milano, Italy
Tel. +39 02 9995 01
Fax +39 02 9995 0999
info@fluidotech.it

Fluid-o-Tech Int'l Inc.
161 Atwater St.,
06479 Plantsville CT (USA)
Tel. +1 (860) 276 9270
Fax +1 (860) 620 0193
info@fluid-o-tech.com

Fluid-o-Tech Int'l Inc. Japan
203, 2-17-19, Ebara, Shinagawa
Tokyo 142-0063, Japan
Tel. +81 (0) (3) 3783 9660
Fax +81 (0) (3) 3783 9661
k.kato@fluidotech.com

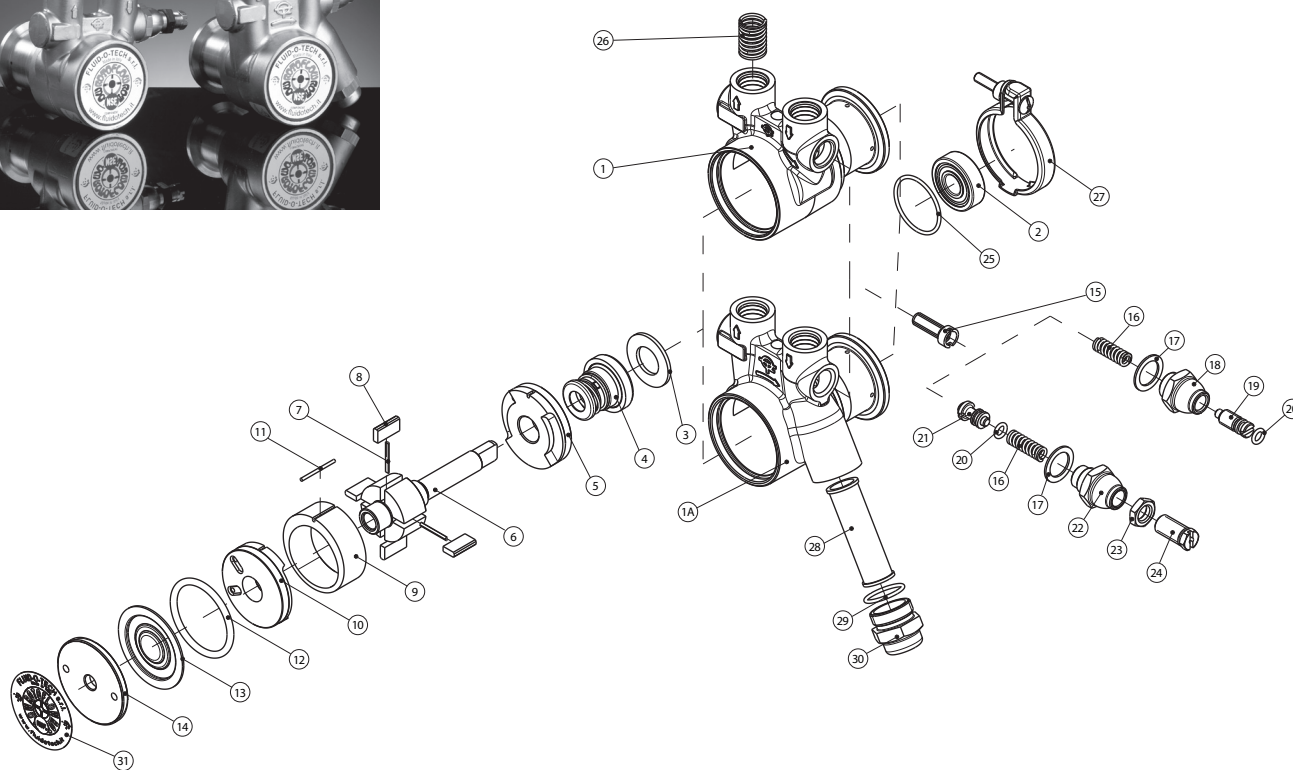
Fluid-o-Tech Asia (Beijing) Co., Ltd
Jingwei Industrial Zone,
Beifang Huairou, Beijing, 101400, PRC
Tel. +86 (0) (10) 6168 4650
Fax +86 (0) (10) 6168 4651
info@fluidotech-asia.com

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POS	DESCRIPTION	MATERIAL	CODE	NOTES
1	HOUSING	BRASS	22-01-01	NPT PORTS
			22-01-02	GAS PORTS
1A	HOUSING WITH FILTER	BRASS	22-01-08	NPT PORTS
			22-01-09	GAS PORTS
2	BALL BEARING	STEEL	90-22-01	
3	WASHER	S.S.	22113	
4	MECHANICAL SEAL	CERAMIC/NBR	90-40-01	NSF/WRAS
		CERAMIC/VITON®	90-40-03	
		CERAMIC/EPDM	90-40-05	
5	REAR FLANGE	GRAPHITE	22-03-08	
6	ROTOR	S.S.	22-02-01	
7	VANE PIN	S.S.	22-07-02	70-100 l/h
			22-07-03	150 l/h
			22-07-04	200 l/h
			22-07-05	250 l/h
			22-07-06	300 l/h
			22-07-07	350 l/h
			22-07-08	400 l/h
8	VANE	GRAPHITE	22-04-03	

POS	DESCRIPTION	MATERIAL	CODE	NOTES
9	LINER	GRAPHITE	22-05-17	70 l/h
			22-05-18	100 l/h
			22-05-19	150 l/h
			22-05-21	200 l/h
			22-05-23	250 l/h
			22-05-24	300 l/h
			22-05-25	350 l/h
			22-05-27	400 l/h
10	FRONT FLANGE	GRAPHITE	22-03-06	
11	ALIGNMENT PIN	S.S.	22-07-01	
12	O-RING	NBR	90-23-13	NSF/WRAS
		VITON®	90-23-21	
		EPDM	90-23-14	
13	SHAPED DISK	S.S.	22701	
14	THREADED CUP	ALUMINUM	22-08-02	
15	OPEN BYPASS VALVE	BRASS	22307	
		PLASTIC	22-16-13	
	SOLID BYPASS VALVE	BRASS	22-16-02	
		PLASTIC	22-16-18	
16	BYPASS SPRING	S.S.	22505	
17	WASHER	NYLON®	22-12-01	NSF/WRAS
18	STANDARD BYPASS NUT	BRASS	22-20-01	
19	STANDARD BYPASS SCREW	BRASS	22-17-03	
20	BYPASS SCREW O-RING	NBR	90-23-16	NSF/WRAS
		VITON®	90-23-20	
		EPDM	90-23-24	
21	BYPASS PLUNGER	BRASS	22-18-02	
		PLASTIC	22-18-07	
22	BALANCED BYPASS NUT	BRASS	22-20-12	
23	LOCK NUT	PLASTIC	22-20-09	
24	BALANCED BYPASS SCREW	BRASS	22-17-02	
25	BALL BEARING SEAT O-RING	NBR	90-23-26	
26	RETAINER SPRING	S.S.	22023	
27	ASSEMBLED CLAMP	S.S.	94-80-01	
28	MAIN FILTER	S.S./PLASTIC	22-82-03	100 MESH
29	FILTER NUT O-RING	NBR	90-23-03	
		VITON®	90-23-17	
		EPDM	90-23-15	
30	FILTER NUT	BRASS	22-20-03	
31	LABEL		99-01-01	
			99-01-02	NSF

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Fluid-o-Tech srl
Via Leonardo da Vinci, 40
20094 Corsico, Milano, Italy
Tel. +39 02 999501
Fax +39 02 99950999
info@fluidotech.it

Fluid-o-Tech Int'l Inc.
161 Atwater St.,
06479 Plantsville CT (USA)
Tel. +1 (860) 276-9270
Fax +1 (860) 620-0193
info@fluid-o-tech.com

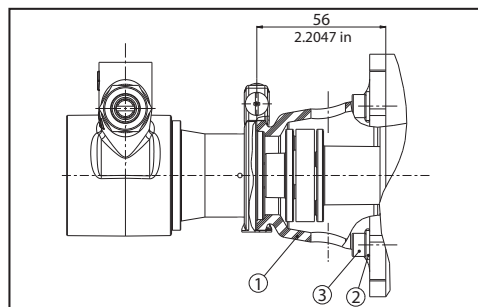
Fluid-o-Tech Int'l Inc. Japan
203, 2-17-19, Ebara, Shinagawa
Tokyo 142-0063, Japan
Tel. +81 (0) (3) 3783-9660
Fax +81 (0) (3) 3783-9661
k.kato@fluidotech.com

Fluid-o-Tech Asia (Beijing) Co., Ltd
Jingwei Industrial Zone,
Beifang Huairou, Beijing, 101400, PRC
Tel. +86 (0) (10) 61684650
Fax +86 (0) (10) 61684651
info@fluidotech-asia.com

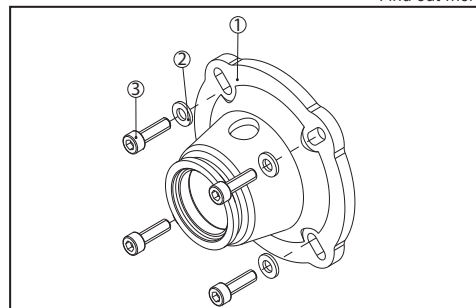
Rotary vane pumps Adapters and Couplings



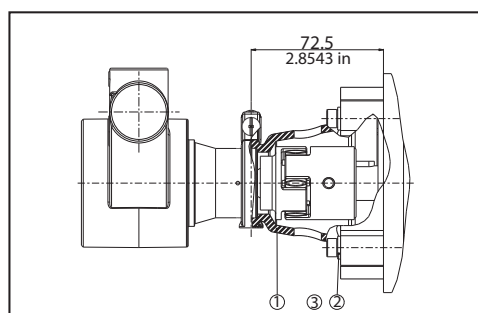
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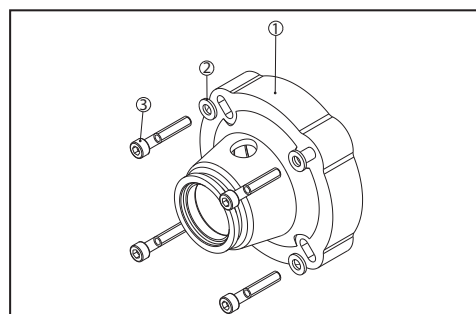
M71 - B14 (92-80-01)



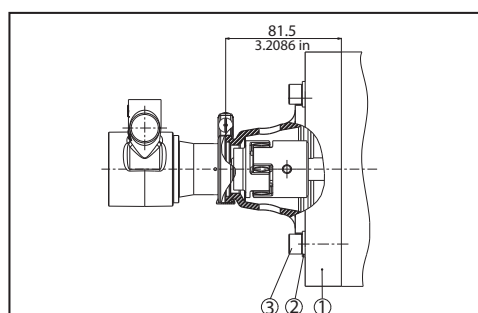
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	ADAPTER M71 - B14	PLASTIC	92-01-01	1
2	6 MM FLAT WASHER	STEEL	90-21-07	4
3	SCREW M6X20 mm	STEEL	90-01-02	4



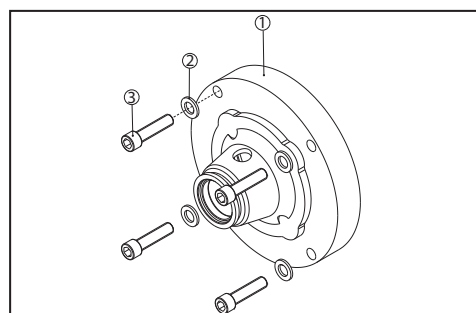
M80 - B14 (92-80-02)



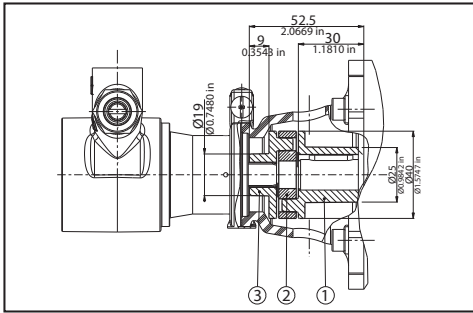
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	ADAPTER M80 - B14	PLASTIC	92-01-02	1
2	6 MM FLAT WASHER	STEEL	90-21-07	4
3	SCREW M6X35 MM	STEEL	90-01-04	4



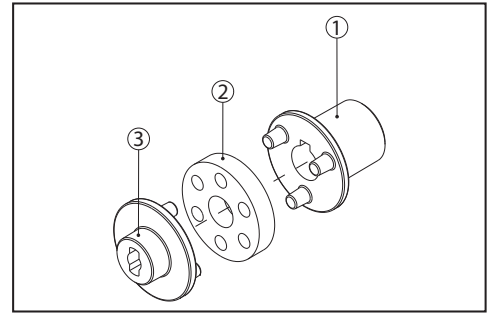
NEMA 56C (92-80-03)



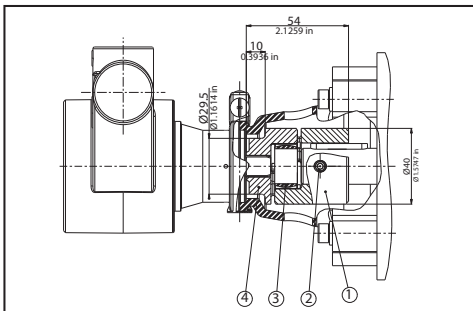
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	ADAPTER NEMA 56C	PLASTIC	92-01-03	1
2	10 mm FLAT WASHER	STEEL	90-21-08	4
3	SCREW 3/8" 16X1-1/2"	STEEL	90-01-02	4



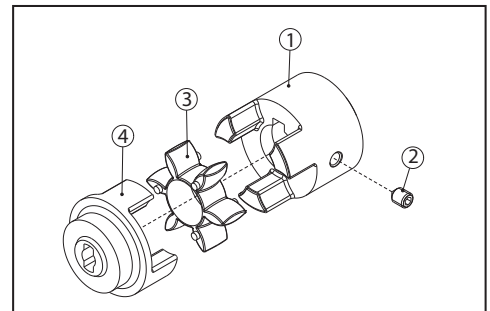
M71 - B14 (91-81-05)



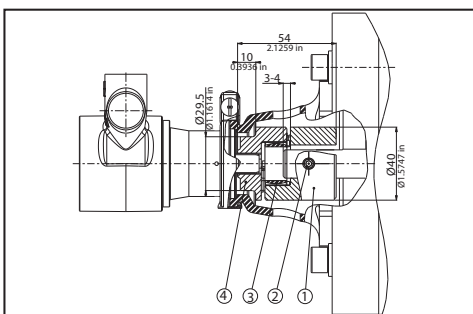
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 14 mm BORE	BRASS	91-01-06	1
2	INSERT	RUBBER	91-02-03	1
3	COUPLING - FLAT SIDE	BRASS	91-01-03	1



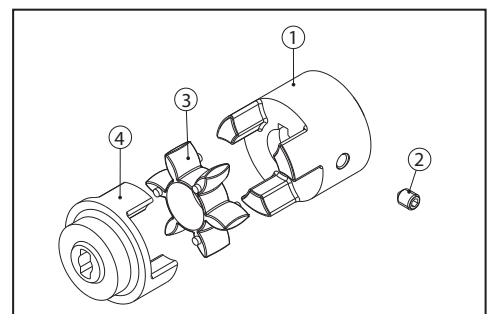
M80 - B14 (91-81-08)



POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 19 mm BORE	CAST IRON	91-01-12	1
2	SET SCREW M6X8 mm	STEEL	90-03-05	1
3	INSERT	RUBBER	91-02-02	1
4	COUPLING - FLAT SIDE	CAST IRON	91-01-08	1



NEMA 56C(91-81-11)



POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 5/8" BORE	CAST IRON	91-01-11	1
2	SET SCREW M6X8 mm	STEEL	90-03-05	1
3	INSERT	RUBBER	91-02-02	1
4	COUPLING - FLAT SIDE	CAST IRON	91-01-08	1

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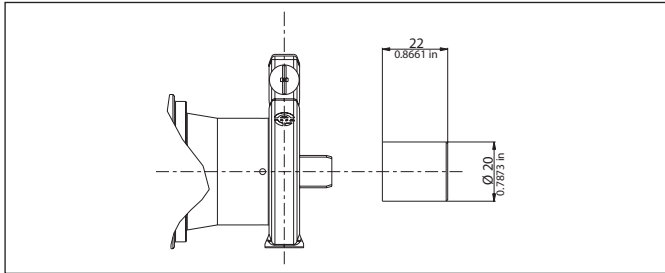
Fluid-o-Tech srl
Via Leonardo da Vinci, 40
20094 Corsico, Milano, Italy
Tel. +39 02 8917071
Fax +39 02 89170799
info@fluidotech.it

Fluid-o-Tech Int'l Inc.
161 Atwater St.,
06479 Plantsville CT (USA)
Tel. +1 (860) 276-9270
Fax +1 (860) 620-0193
info@fluid-o-tech.com

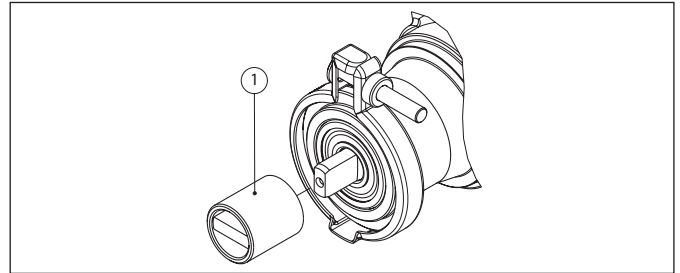
Fluid-o-Tech Int'l Inc. Japan
203, 2-17-19, Ebara, Shinagawa
Tokyo 142-0063, Japan
Tel. +81 (0) (3) 3783-9660
Fax +81 (0) (3) 3783-9661
k.kato@fluidotech.com

Fluid-o-Tech Asia (Beijing) Co., Ltd
Jingwei Industrial Zone,
Beifang Huairou, Beijing, 101400, PRC
Tel. +86 (0) (10) 61684650
Fax +86 (0) (10) 61684651
info@fluidotech-asia.com

PO/MO SERIES

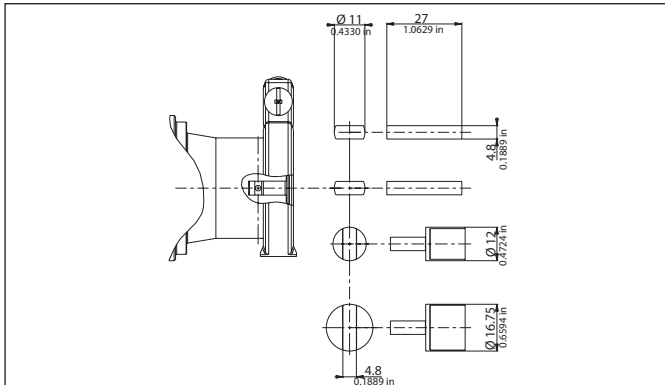


DUMPER COUPLING FOR RPM MOTORS

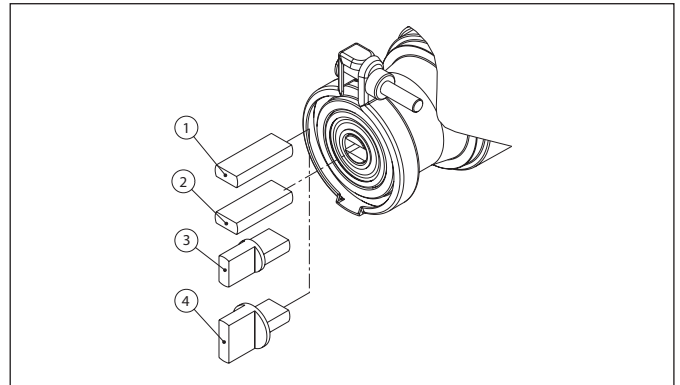


POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING MALE/FEMALE	PLASTIC	91-03-05	1

PO/MO SERIES

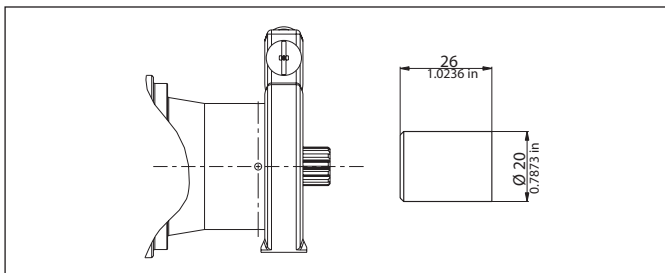


FEMALE SHAFT WITH COUPLING

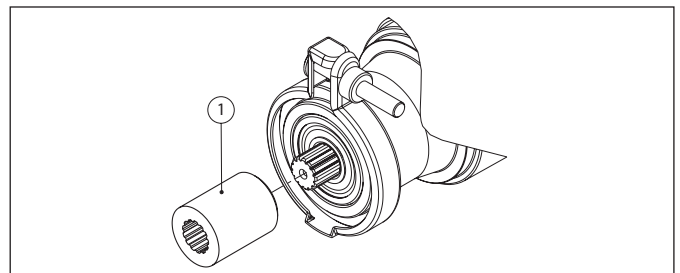


POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	FLAT COUPLING	PLASTIC	91-03-01	1
2	FLAT COUPLING	BRASS	91-03-02	1
3	CROSS COUPLING	BRASS	91-03-04	1
4	CROSS COUPLING	BRASS	91-03-03	1

PO SERIES



SPLINED SHAFT WITH COUPLING



POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	SPLINED COUPLING	PLASTIC	91-03-08	1

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Fluid-o-Tech srl
Via Leonardo da Vinci, 40
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Fax +39 02 9995 0999
info@fluidotech.it

Fluid-o-Tech Int'l Inc.
161 Atwater St.,
06479 Plantsville CT (USA)
Tel. +1 (860) 276 9270
Fax +1 (860) 620 0193
info@fluid-o-tech.com

Fluid-o-Tech Int'l Inc. Japan
203, 2-17-19, Ebara, Shinagawa
Tokyo 142-0063, Japan
Tel. +81 (0) (3) 3783 9660
Fax +81 (0) (3) 3783 9661
k.kato@fluidotech.com

Fluid-o-Tech Asia (Beijing) Co., Ltd
Jingwei Industrial Zone,
Beifang Huairou, Beijing, 101400, PRC
Tel. +86 (0) (10) 6168 4650
Fax +86 (0) (10) 6168 4651
info@fluidotech-asia.com