

Brass and stainless steel rotary vane pumps PO 500-1000 series

The high volume rotary vane pumps manufactured by Fluid-o-Tech® and sold worldwide under the trademark Rotoflow® are available in six flow ratings to meet the needs of high volume pumping.

Technical features and manufacturing characteristics

The rotary vane pump with brass or stainless steel body utilizes a stainless steel AISI 303 rotor, while the pumping chamber and the vanes are in carbon graphite. Inlet and outlet ports are 1/2" GAS or NPT threaded and the pump could be equipped with a built-in adjustable relief valve. The pump can be connected to coupling direct motor with a metallic clamp or to M71 and M80 UNELMEC frame motors with the Fluid-o-Tech® coupling and adapter set. Maximum operative temperature: 70 °C (158 F)

Available upon request:

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



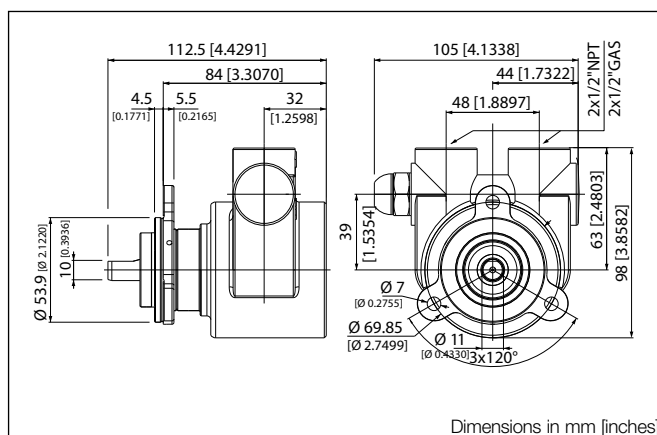
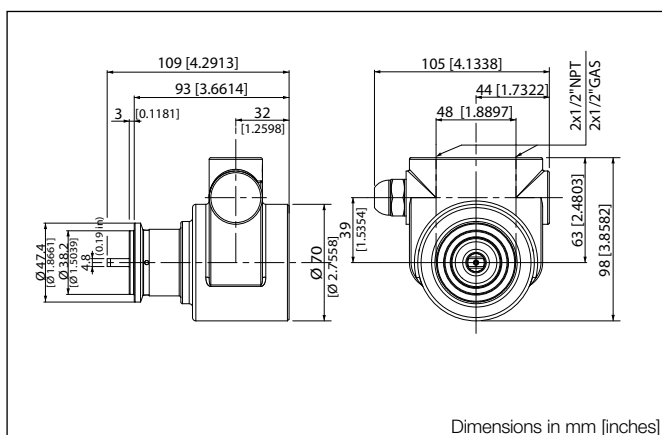
MAIN APPLICATIONS

- Post mix drink dispensers
- Water treatment
- Cooling systems
- Booster systems



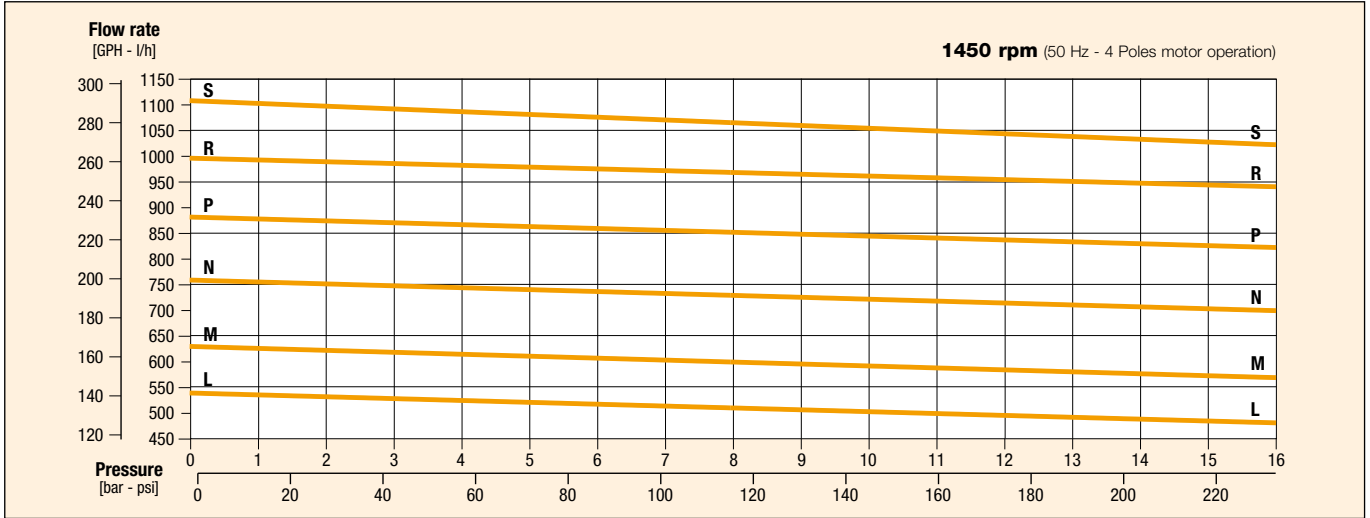
TECHNICAL INFORMATION

Pump housing material	Brass or stainless steel	Max static pressure	20 bar/290 psi
Pumping chamber	Carbon graphite	Pump weight	Clamp mount 1.9 kg (4.2 lb)
Ports	1/2" GAS or NPT		Flange mount 2 Kg (4.4 lb)
Speed limit	1725 rpm		

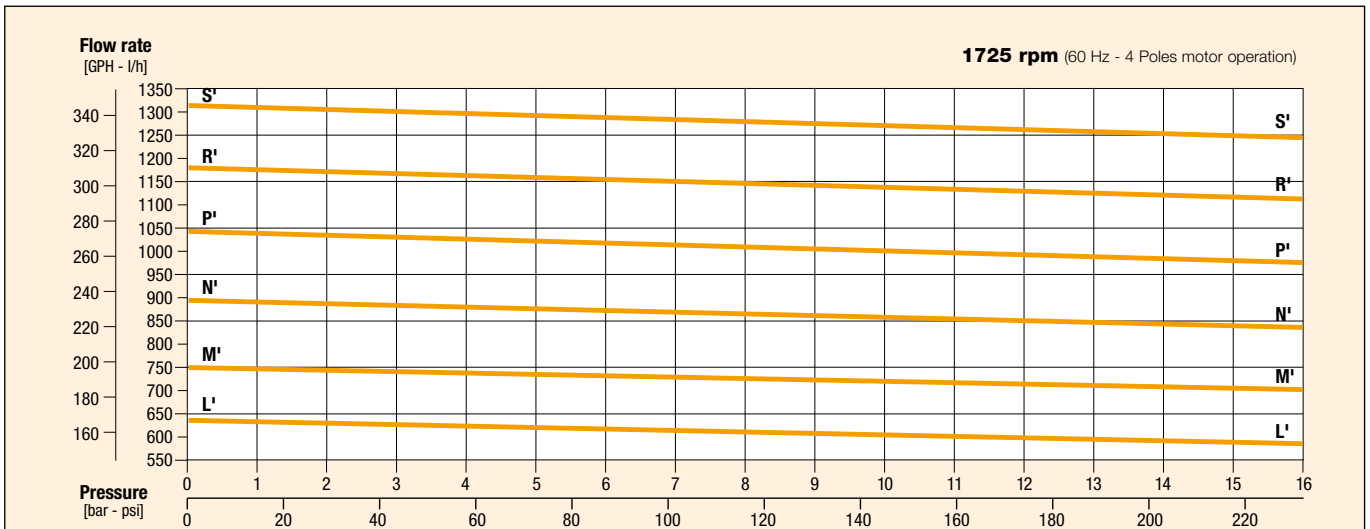


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Model PO/PA/PW Brass	500	501	500F	501F	600	601	600F	601F	700	701	700F	701F	800	801	800F	801F	900	901	900F	901F	1000	1001	1000F	1001F
Model PO/PA/PW Stainless Steel	510	511	510F	511F	610	611	610F	611F	710	711	710F	711F	810	811	810F	811F	910	911	910F	911F	1010	1011	1010F	1011F
Figure			L-L				M-M				N-N				P-P			R-R				S-S		
Relief valve	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
Flange mount	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES
Clamp mount	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO



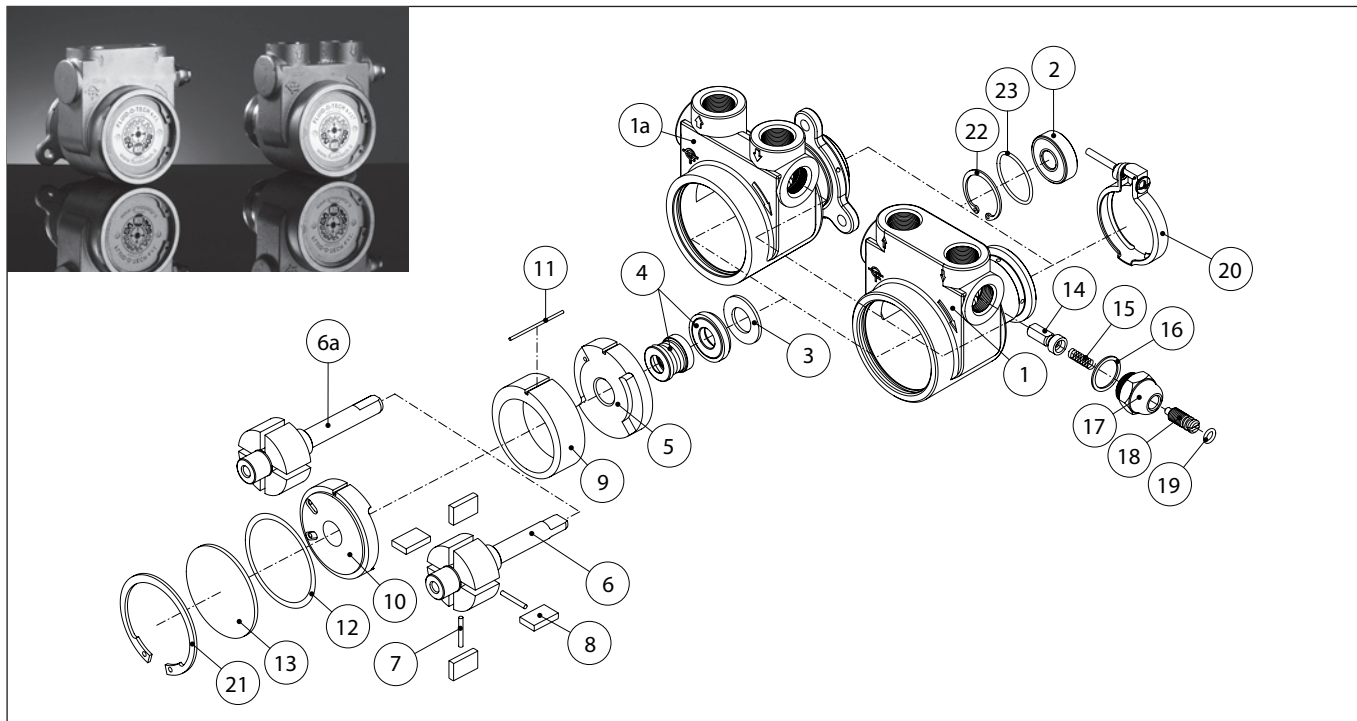
Model PO/PA/PW Brass	500	501	500F	501F	600	601	600F	601F	700	701	700F	701F	800	801	800F	801F	900	901	900F	901F	1000	1001	1000F	1001F
Model PO/PA/PW Stainless Steel	510	511	510F	511F	610	611	610F	611F	710	711	710F	711F	810	811	810F	811F	910	911	910F	911F	1010	1011	1010F	1011F
Figure			L'-L'				M'-M'				N'-N'				P'-P'			R'-R'				S'-S'		
Relief valve	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
Flange mount	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES
Clamp mount	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO



Note: Characteristics at constant motor speed, with water at 20 °C (68 F) and bypass blocked - Figures of flow are averages.
For applications involving other fluids, high temperatures or unusual processing conditions, please consult the factory or an authorized Fluid-o-Tech distributor.



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POS	DESCRIPTION	MATERIAL	CODE	NOTES
1	HOUSING WITH BYPASS	BRASS	28-01-02	NPT PORTS
		S.S.	28-01-11	NPT PORTS
1A	HOUSING WITH BYPASS AND FLANGE	BRASS	28-01-05	NPT PORTS
		S.S.	28-01-14	NPT 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	28-03-04	
6	ROTOR	S.S.	28-02-01	
6A	"D" ROTOR (FLANGE)	S.S.	28-02-02	
			28-07-08	500 l/h
			28-07-09	600 l/h
7	VANE PIN	S.S.	28-07-10	700 l/h
			28-07-11	800 l/h
			28-07-12	900 l/h
			28-07-13	1000 l/h
8	VANE	GRAPHITE	28-04-02	
			28-05-10	500 l/h
			28-05-11	600 l/h
9	LINER	GRAPHITE	28-05-12	700 l/h
			28-05-13	800 l/h
			28-05-14	900 l/h

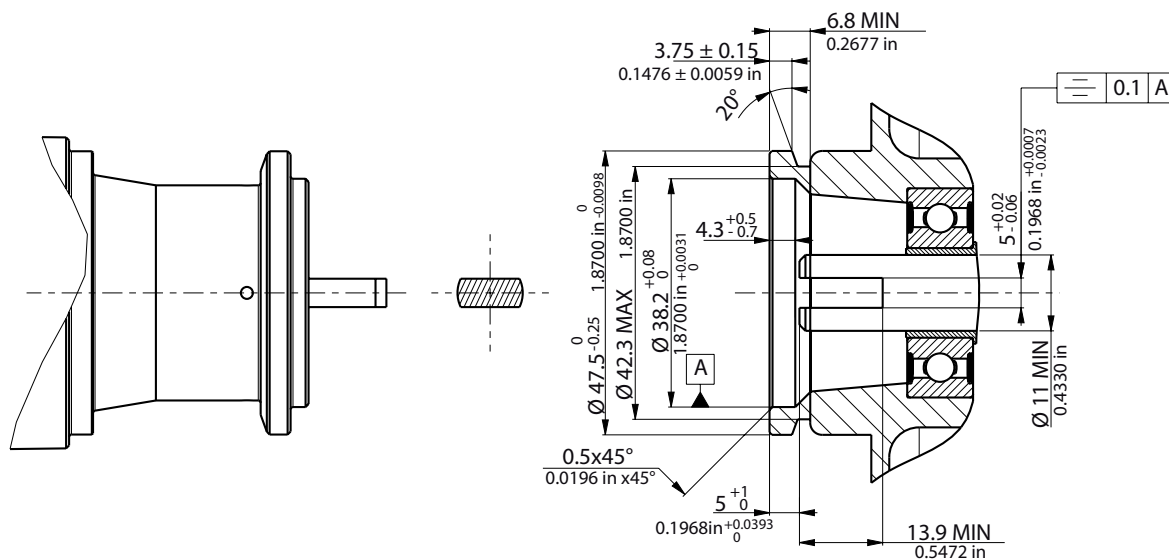


POS	DESCRIPTION	MATERIAL	CODE	NOTES
10	FRONT FLANGE	GRAPHITE	28-03-06	
11	ALIGNMENT PIN	S.S.	28-07-15	
12	CAP O-RING	NBR	90-23-93	NSF/WRAS
		VITON®	90-23-95	
		EPDM	90-23-94	
13	CAP	S.S.	28015	
14	SOLID BYPASS VALVE	BRASS	22-16-02	
		S.S.	22-16-03	
		PLASTIC	22-16-15	
15	SPRING	S.S.	22505	
16	WASHER	NYLON®	22-12-01	NSF/WRAS
17	BYPASS NUT	BRASS	22-20-01	
		S.S.	22-20-04	
18	BYPASS SCREW	BRASS	28071	
		S.S.	28072	
19	BYPASS SCREW O-RING	NBR	90-23-16	NSF/WRAS
		VITON®	90-23-20	
		EPDM	90-23-24	
20	ASSEMBLED CLAMP	S.S.	94-80-01	
21	FRONT SEEGER CIRCLIP	STEEL	28016	
22	REAR SEEGER CIRCLIP	STEEL	22083	
23	O-RING	NBR	90-23-26	



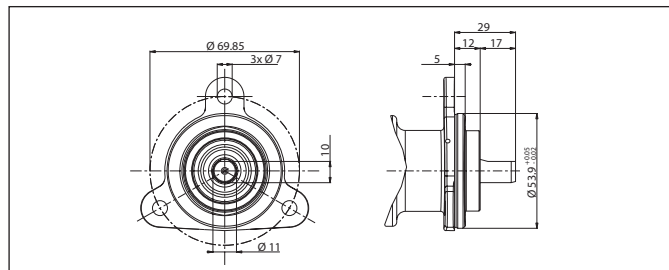
Rotary vane pumps

Optional mountings

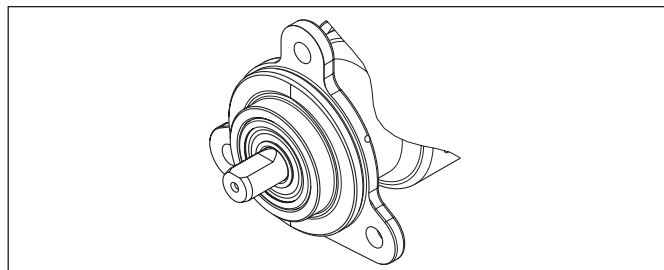


Notes: The drawing illustrates the minimum dimensional requirement of the motor in order to grant the proper alignment between pump and motor.
Tool AT-190_1 is available upon request to verify the compliance with the motor to the above requirements.
Misalignment between motor and pump shaft might cause excessive noise at first and damage to pump and/or motor afterwards with possible leakages of liquid and subsequent blockage of the unit.

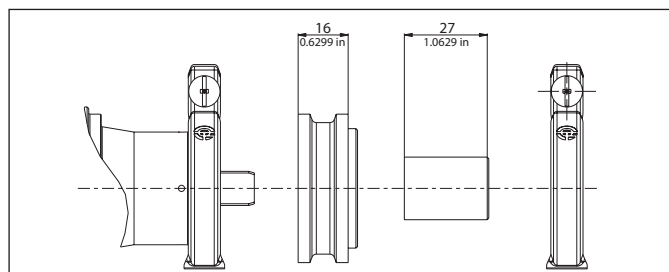
PO SERIES



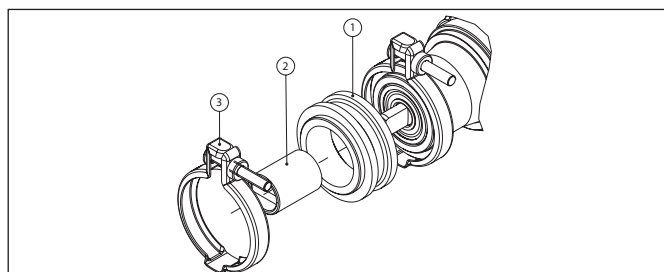
FLANGE MOUNTING



PO/MO/IG SERIES



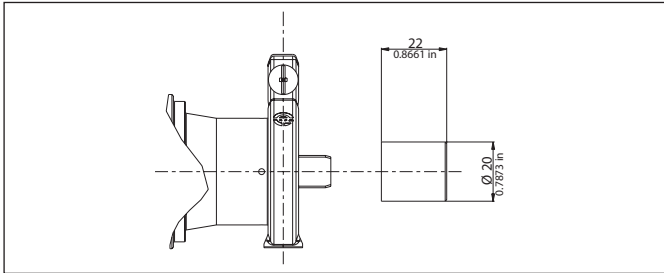
KIT 48YZ



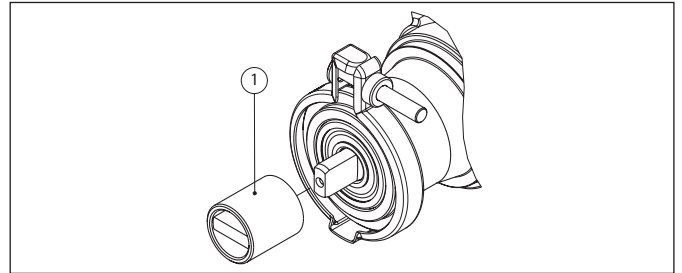
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	SPACER 48 YZ	PLASTIC	92-01-04	1
1	HIGH TEMPERATURE SPACER 48 YZ	PLASTIC	92-01-05	1
1	CROSS COUPLING MALE/FEMALE	PLASTIC	91-03-06	1



PO/MO SERIES

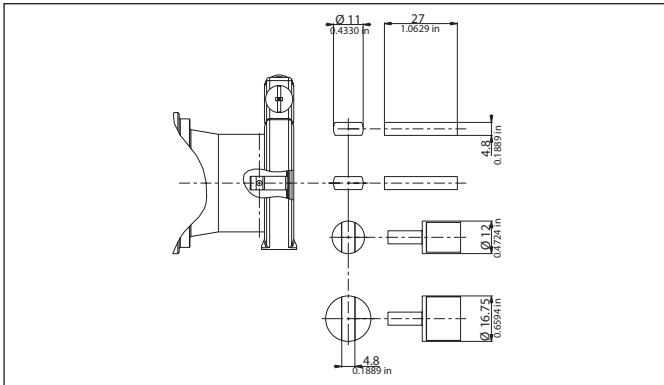


DUMPER COUPLING FOR RPM MOTORS

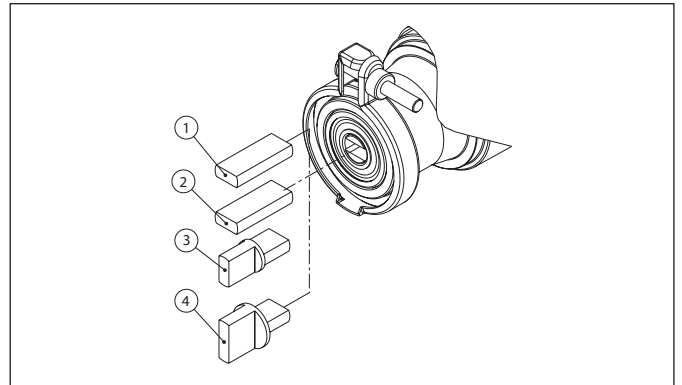


POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING MALE/FEMALE	PLASTIC	91-03-05	1

PO/MO SERIES

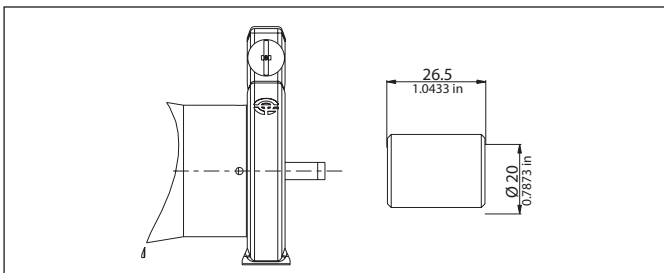


FEMALE SHAFT WITH COUPLING

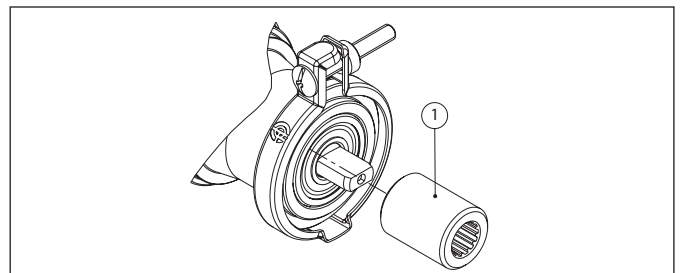


POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	FLAT COUPLING	PLASTIC	91-03-01	1
2	FLAT COUPLING	BRASS	91-03-02	1
3	CROSS COUPLING	BRASS	91-03-04	1
4	CROSS COUPLING	BRASS	91-03-03	1

PO SERIES



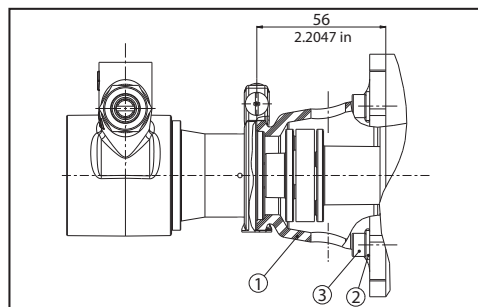
COUPLING FOR "1" PUMP ROTOR



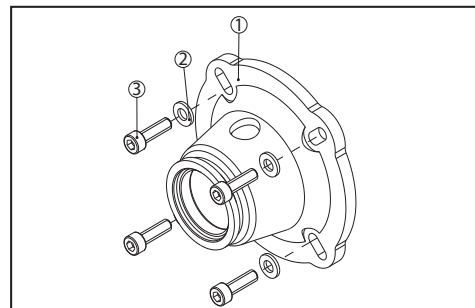
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	"1" SPLINED COUPLING	PLASTIC	91-03-11	1



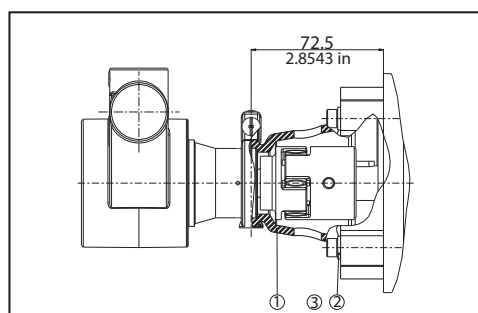
Rotary vane pumps Adapters and Couplings



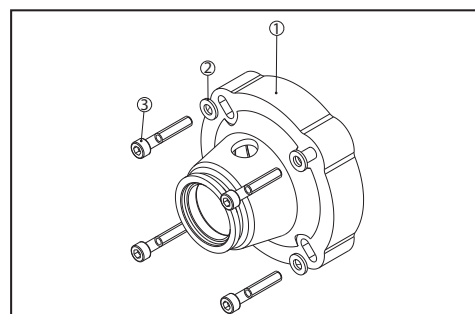
M71 - B14 (92-80-01)



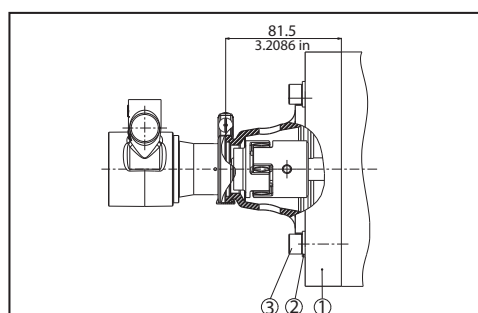
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	ADAPTER M71 - B14	PLASTIC	92-01-01	1
2	6 MM FLAT WASHER	STEEL	90-21-07	4
3	SCREW M6X20 mm	STEEL	90-01-02	4



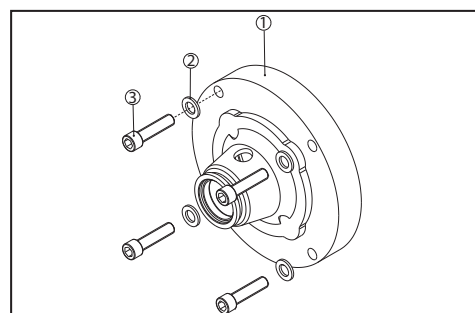
M80 - B14 (92-80-02)



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

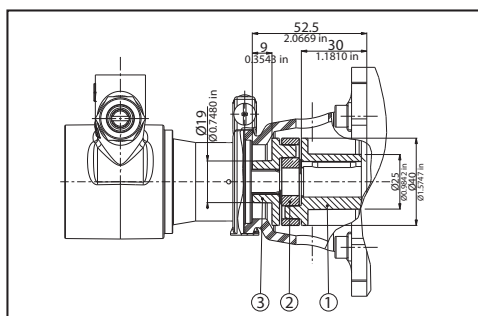


NEMA 56C (92-80-03)

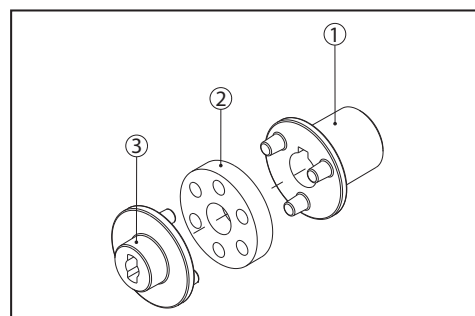


POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	ADAPTER NEMA 56C	PLASTIC	92-01-03	1
2	10 mm FLAT WASHER	STEEL	90-21-08	4
3	SCREW 3/8" 16X1-1/2"	STEEL	90-01-02	4

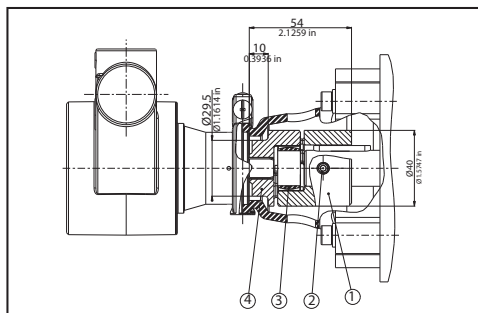




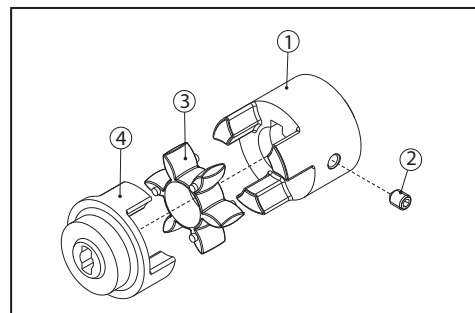
M71 - B14 (91-81-05)



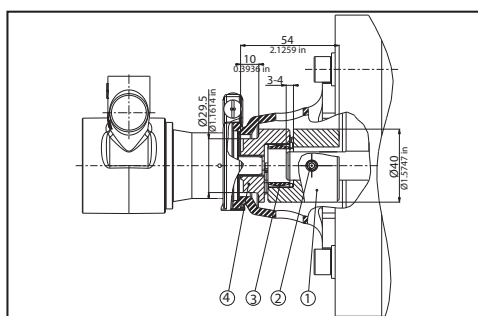
POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 14 mm BORE	BRASS	91-01-06	1
2	INSERT	RUBBER	91-02-03	1
3	COUPLING - FLAT SIDE	BRASS	91-01-03	1



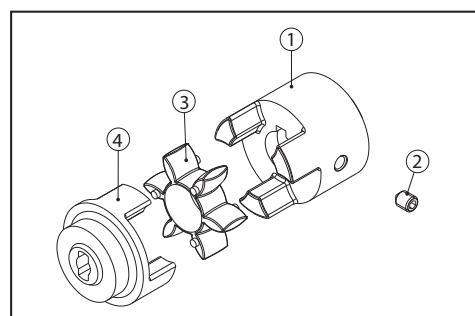
M80 - B14 (91-81-08)



POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 19 mm BORE	STEEL	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	STEEL	91-01-08	1



NEMA 56C(91-81-11)



POS	DESCRIPTION	MATERIAL	CODE	QUANTITY
1	COUPLING WITH 5/8" BORE	STEEL	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	STEEL	91-01-08	1





CERTIFICATION MARK

This certifies that

FLUID-O-TECH

*has had the undermentioned product examined, tested and found,
when correctly installed, to comply with the requirements of the
United Kingdom Water Supply (Water Fittings) Regulations and
Scottish Water Byelaws.*

20, 22, 24, 26, 28, 31, 32, 33 & 34 SERIES OF PUMPS

*The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current
status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)*

The product so mentioned will be valid until the end of:

September 2020

1509062

Certificate No.

Secretary

Chairman, Product Assessment Group



NSF International

RECOGNIZES

FLUID O TECH S.R.L.

Facility: CORSICO, MILANO, ITALY

AS COMPLYING WITH NSF/ANSI 169.

PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



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