HIGH PRESSURE + COMPACT

Rotary Union Solutions

SE Series

FLOW PASSAGE OPTIONS

2 4 6 8

12 16 24

ISO 9001:2008

DSTI

DYNAMIC SEALING TECHNOLOGIES, INC

SE SERIES

Contents

About DSTI

Dynamic Sealing Technologies, Inc. (DSTI) is a global leader in rotary unions and swivel joints used to provide reliable fluid transfer and sealing for energy, defense and industrial applications.

Learn more at www.dsti.com

Did You Know?

» DSTI Exports Rotary Union Products to Over 50 Countries

What is a Rotary Union?

A rotary union (or swivel joint) is a mechanism used to transfer fluid (under pressure or vacuum) from a stationary inlet to a rotating outlet, preserving and isolating the fluid connection.

Rotary unions are engineered to endure a wide range of temperatures and pressures for a variety of conditions and environments. In addition, rotary unions may integrate multiple passages and handle different types of fluid simultaneously.

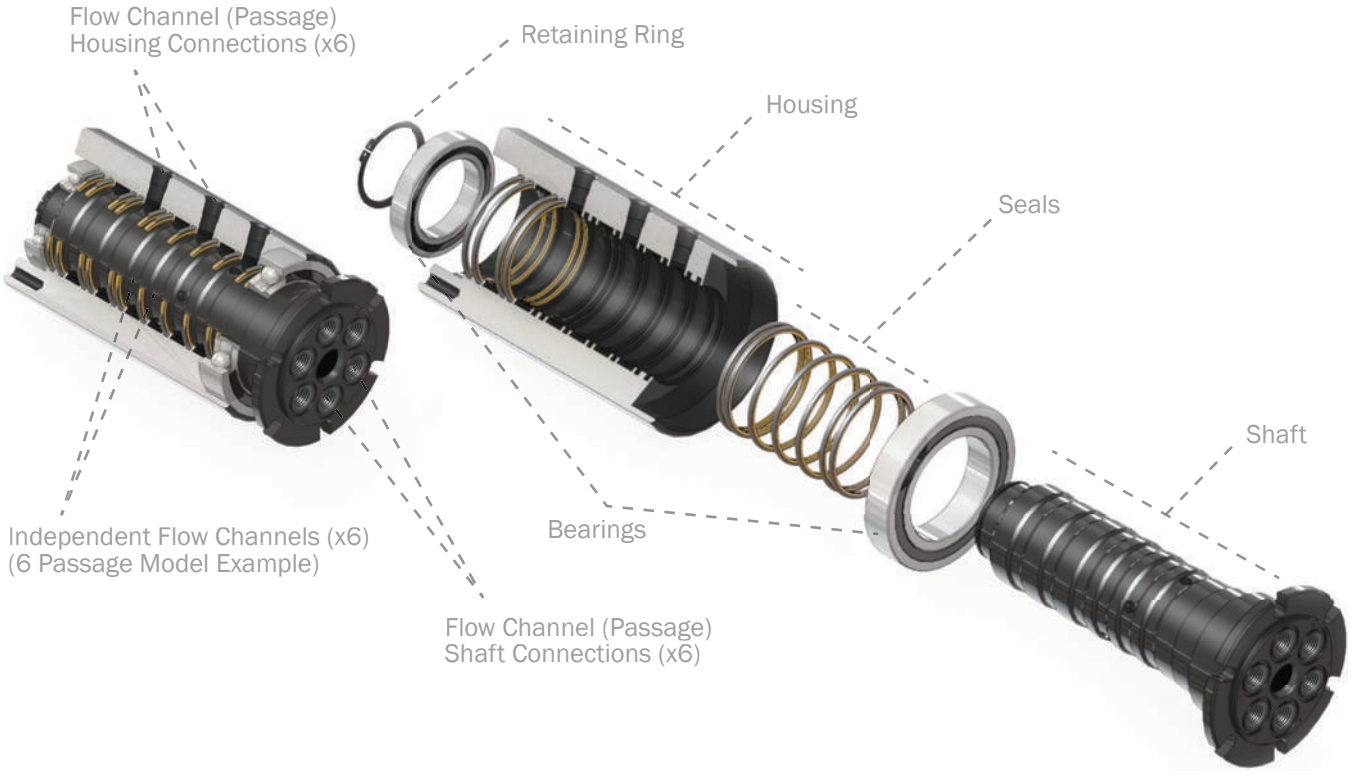
See examples at **www.dsti.com/industries**

How do I choose the best rotary union for my application?

Tell us about your requirements so we can make a recommendation:

1) Type of media(s) / fluid(s) to be transferred
2) Number of independent flow channels (passages)
3) Operating pressure
4) Operating temperature
5) Operating speed
6) Shaft & housing connection type
7) Flow channel (passage) size
8) Torque & load requirements
9) Duty cycle*

**Does the temperature, speed or pressure fluctuate or change during operation? If so, please provide the detailed ranges for each parameter and time durations of each condition.*



SE SERIES

SE Series Overview

- Compact Design
- High Pressure Requirements Up To 7500 PSI
- Vacuum & Bi-directional Sealing
- #4 SAE-ORB / O-ring Face Seal Connections
- Exclusive DSTI Sealing Technology
- Integrated Electrical Slip Ring Options
- Customizable Options

ON THE WEB

Download STEP, DWG, and PDF resources.
View interactive 3D models and more!

Learn more at **www.dsti.com**

How to Order: Create your Part Number

EXAMPLE

SE – 1 1 2 1 – OF – ES12A – F2 – C1

OPTIONS See Next Page

1	With Thru-bore

NOTE All SE Series rotary unions include thru-bores

2	2 Flow Passages
4	4 Flow Passages
6	6 Flow Passages
8	8 Flow Passages
12	12 Flow Passages
16	16 Flow Passages
24	24 Flow Passages

1	0.187" (4.75mm) Passage Size

1	Product Series (SE)

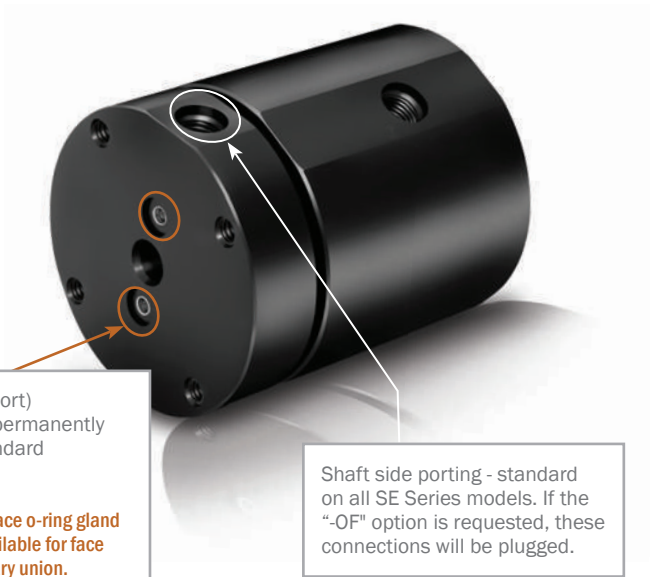
SE	SE Series (#4 SAE-ORB Connection)
SEM	SE Series (BSPP Connection)

EXAMPLES

SE-1121
- SE 2 Passage with thru-bore, #4 SAE-ORB Connections

SEM-11121
- SE 12 Passage with thru-bore, G1/8" -28 BSPP Connections

SE-11241
- SE 24 Passage with thru-bore, #4 SAE-ORB Connections



These passage (port) connections are permanently sealed in the standard configuration.

If requested, shaft face o-ring gland connections are available for face mounting an SE rotary union.

Please add the "-OF" option when ordering. (Example: SE-1121-OF)

Shaft side porting - standard on all SE Series models. If the "-OF" option is requested, these connections will be plugged.

SE SERIES

How to Order: Choose your Options

EXAMPLE

SE — 1 1 2 1 — 0F — ES12A — F2 — C1

0F	Add "-OF" for Shaft O-ring Face Seal Option

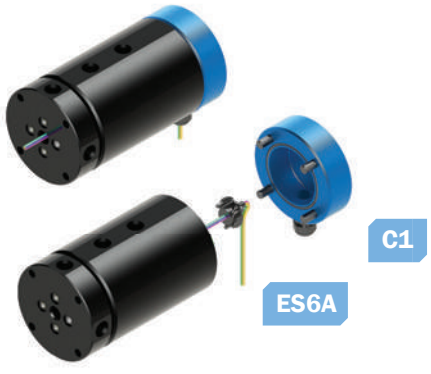
Optional Electrical Slip Rings[1]
(see Electrical Slip Ring options on pg.24 for full specifications)

ESx	6 - 56 Circuits 210 Volts
ESEx	8 - 51 Circuits 240 Volts Ethernet
ESMx	9 - 52 Circuits 120/210 Volts

F1	Housing Mounting Flange
F2	Shaft Mounting Flange

C1	Cover For ES6A / ES12A
C2	Cover For All Other ES / ESM

[1] Pin connector and cord set options also available. Please contact DSTI for more information.



EXAMPLE

SE-1141-ES6A-C1

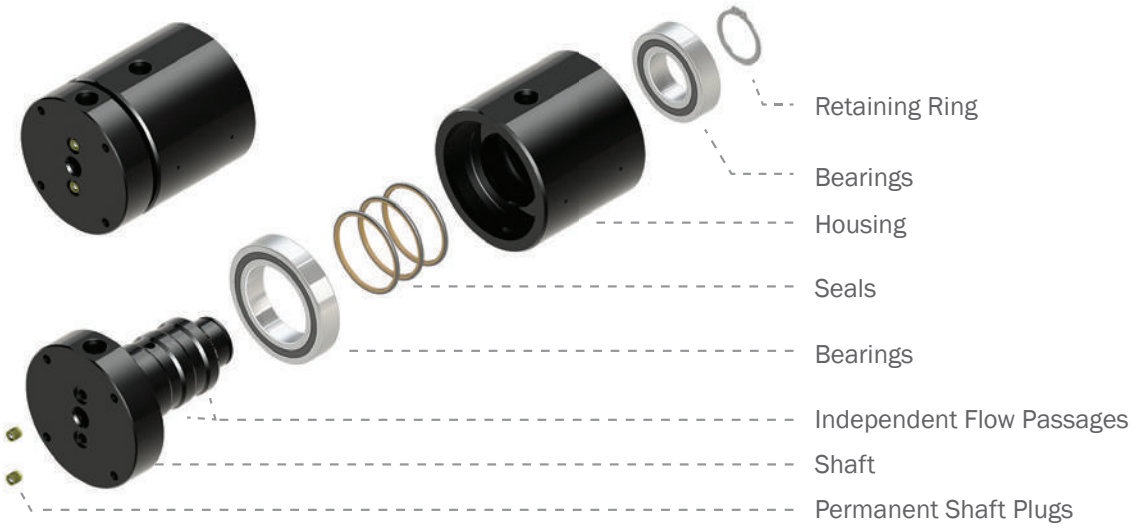
SE 4 Passage model with thru-bore, #4 SAE-ORB connections with an ES6A electrical slip ring and protective cover.

EXAMPLE

SE-11121-0F-ES36-F1-F2-C2

SE 12 Passage model with thru-bore, #4 SAE-ORB connections with a shaft o-ring face seal option, housing and shaft mounting flanges , and an ES12 electrical slip ring with a cover.

Specifications & Operating Information



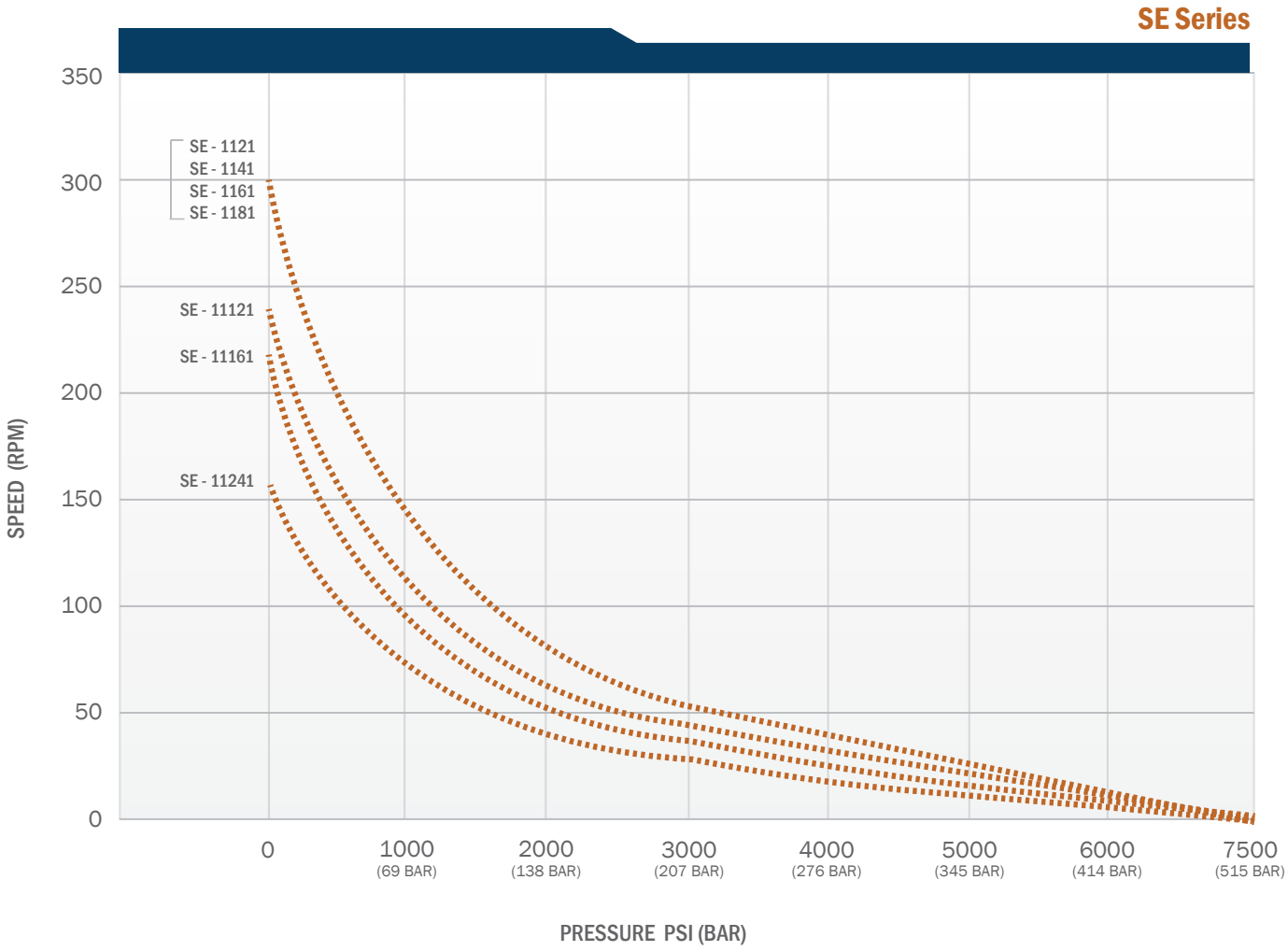
Flow Passage Options	2	4	6	8	12	16	24
Media Types	Coolant, Gases, Oil, Steam, Water						
Passage Sizes	0.187" (4.75mm)						
Connection Type	#4 SAE- ORB (G1/8"-28 BSPP)						
Max. Operating Pressure	7500 PSI (515 BAR)[1]						
Max. Vacuum	30 HG[1]						
Max. Rotational Speed	300 RPM[1]						
Operating Temperature	0° F to 220° F (-18° C to 105° C)[2]						
Body Material Type	Carbon Steel						
Platings and Coatings	Black Oxide						
Thru-bore Size	3/8" (9.5 mm)						
Slip Ring Options	See Page 24						
Mounting Options	Tapped holes are provided on both the housing and shaft for mounting the assembly.						
Mounting Flange	Available steel flange can be bolted onto the shaft end of the assembly for o-ring face mounting.						

[1] Values are dependent on a combination of all application parameters. Please consult with DSTI.

[2] High temperature applications may require alternative seal materials. Please consult with DSTI.

SE SERIES

Performance Data: Pressure vs. Speed (Continuous)



* This data is to be used as a general guideline. Please consult DSTI about your specific application.
Data based on hydraulic fluid as the media type.

Performance Data: Pressure vs. Torque

PRESSURE PSI (BAR)

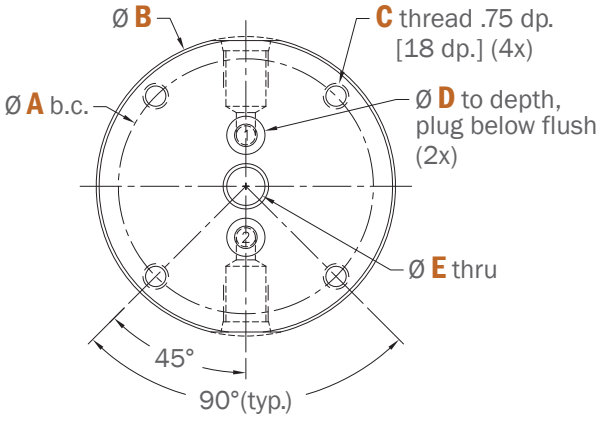
MODEL	0	1000 (69 BAR)	2000 (138 BAR)	3000 (207 BAR)	4000 (276 BAR)	5000 (345 BAR)	6000 (414 BAR)	7500 (515 BAR)
SE-1121	1.9 [2.6]	2.9 [3.9]	3.9 [5.3]	4.8 [6.5]	5.8 [7.9]	6.8 [9.2]	7.8 [10.6]	9.2 [12.5]
SE-1141	3.2 [4.3]	4.8 [6.5]	6.5 [8.8]	8.1 [11.0]	9.7 [13.2]	11.3 [15.3]	12.9 [17.5]	15.4 [20.9]
SE-1161	4.5 [6.1]	6.8 [9.2]	9.0 [12.2]	11.3 [15.3]	13.6 [18.4]	15.8 [21.4]	18.1 [24.5]	21.5 [29.2]
SE-1181	5.8 [7.9]	8.7 [11.8]	11.6 [15.7]	14.5 [19.7]	17.5 [23.7]	20.4 [27.7]	23.3 [31.6]	27.7 [37.6]
SE-11121	11.1 [15.0]	17.1 [23.2]	23.1 [31.3]	29.2 [39.6]	35.2 [47.7]	41.2 [55.9]	47.2 [64.0]	56.2 [76.2]
SE-11161	13.8 [18.7]	23.1 [31.3]	32.5 [44.1]	41.9 [56.8]	51.3 [69.6]	60.7 [82.3]	70.0 [94.9]	84.1 [114.0]
SE-11241	44.0 [59.7]	76.4 [103.6]	108.9 [147.6]	141.3 [191.6]	173.8 [235.6]	206.2 [279.6]	238.6 [323.5]	287.3 [389.5]

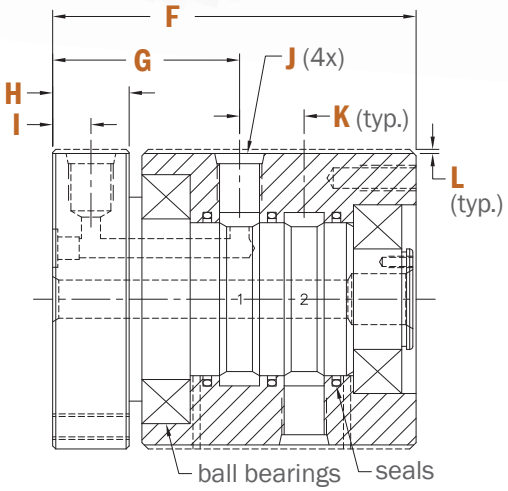
PRESSURIZED TORQUE (POUND FOOT [NEWTON METER])

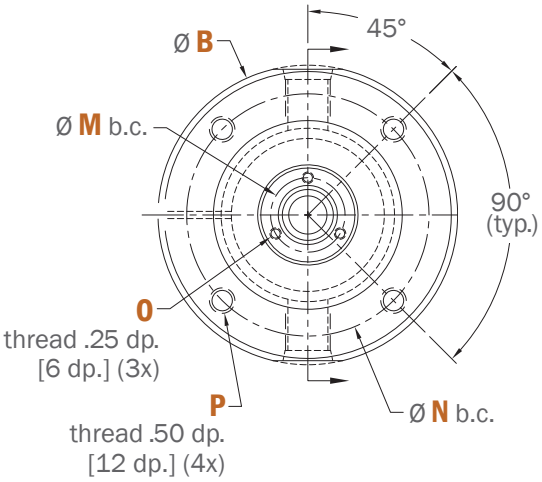
* This data is to be used as a general guideline. Please consult DSTI about your specific application.
Torque data based on all passages (ports) pressurized.

SE SERIES

SE 2 Flow Passage: Dimensions



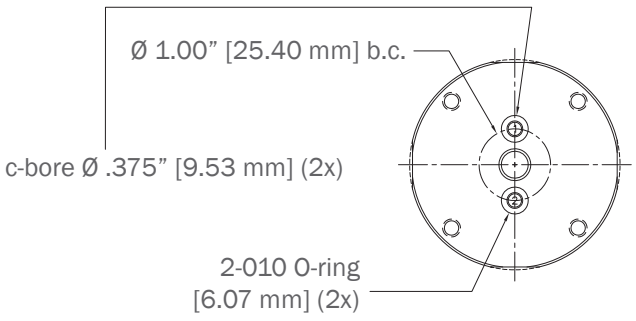




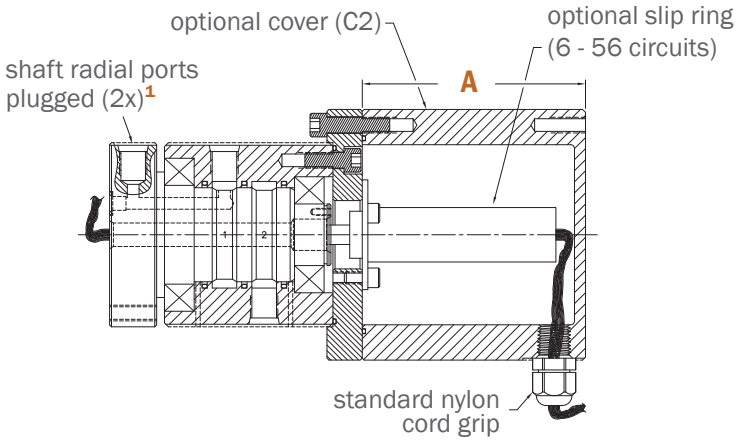
P/N	SE-1121 [SEM-1121]
A	2.500" [63.50mm]
B	2.937" [74.60mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	3.56" [90.5mm]
G	1.83" [46.5mm]
H	0.750" [19.05mm]

I	0.375" [9.53mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.63" [16.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]

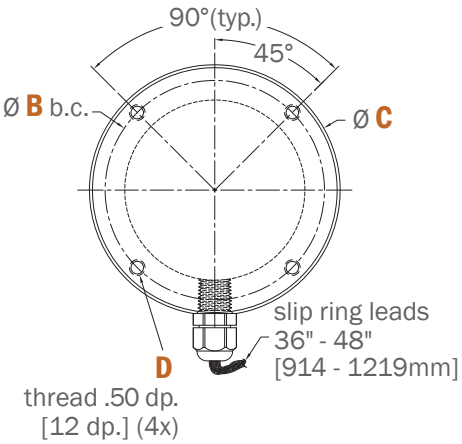
OPTIONAL O-RING FACE CONNECTION



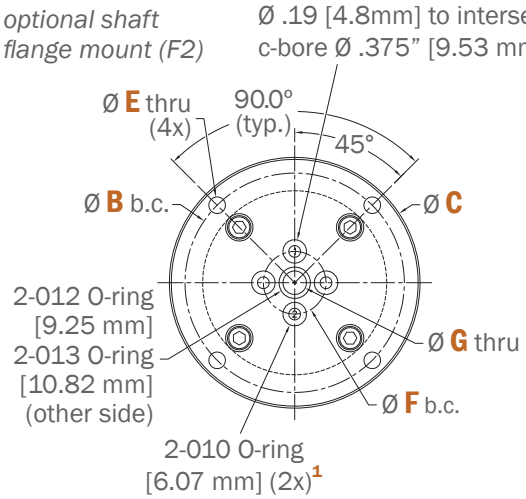
SE 2 Flow Passage: Optional Equipment

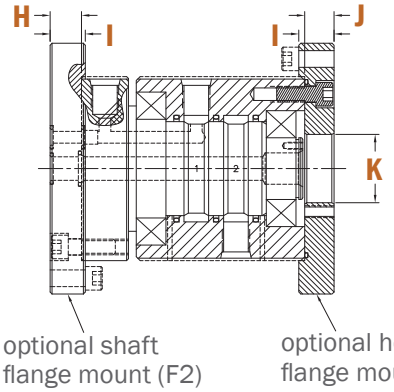


optional cover (C2)

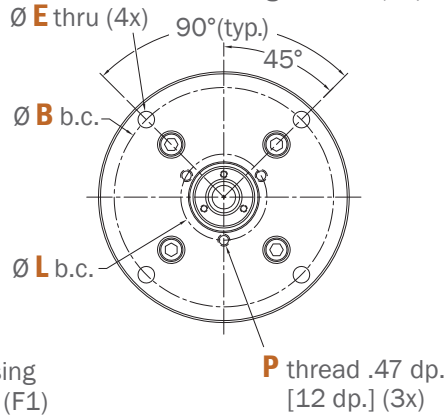


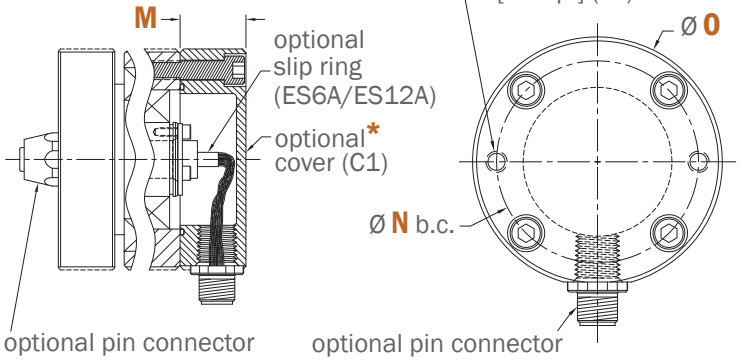
optional shaft flange mount (F2)





optional housing flange mount (F1)





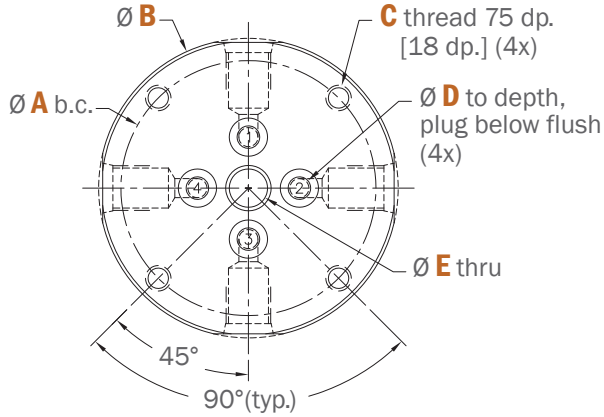
	OPTIONAL EQUIPMENT
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	1.00" [25.40mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]

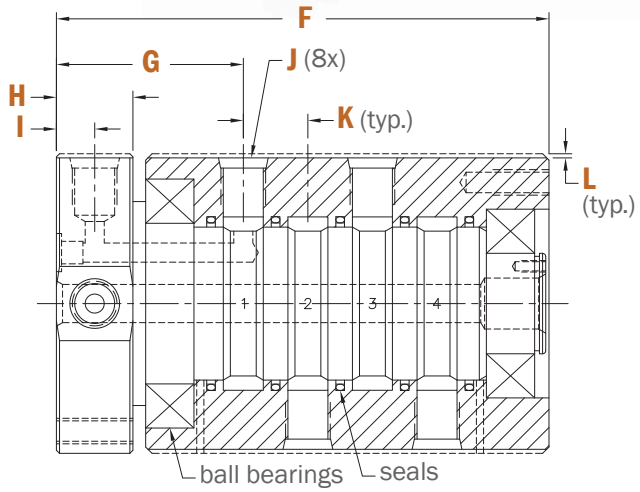
I	0.562" [14.27mm]
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	#10 - 24 UNC [M5x0.8]

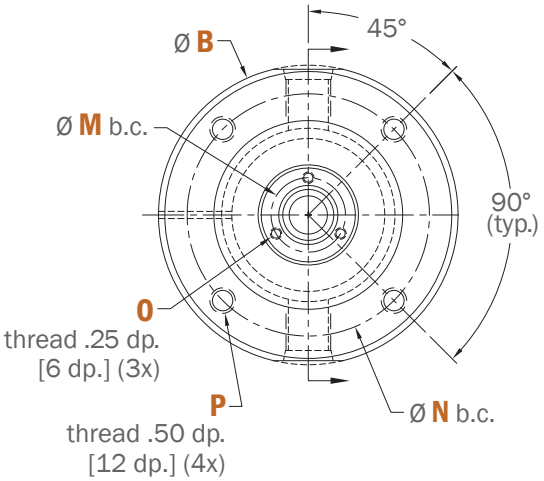
[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

SE 4 Flow Passage: Dimensions



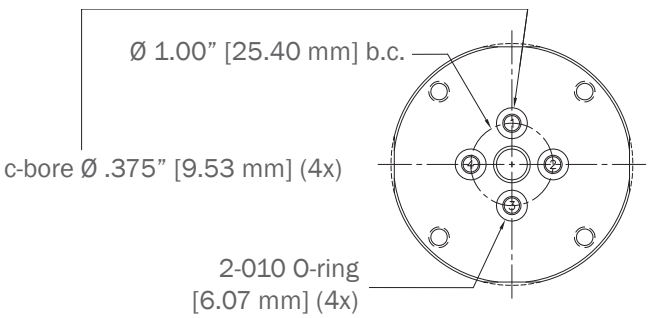




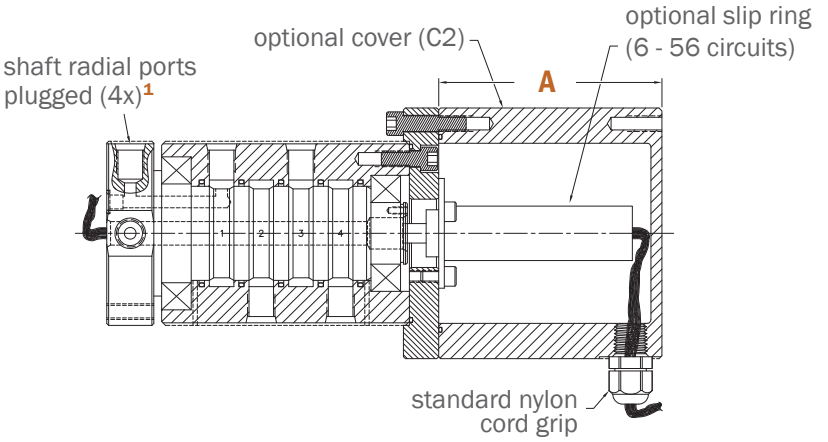
P/N	SE-1141 [SEM-1141]
A	2.500" [63.50mm]
B	2.937" [74.60mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	4.83" [122.6mm]
G	1.83" [46.5mm]
H	0.750" [19.05mm]

I	0.375" [9.53mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.63" [16.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]

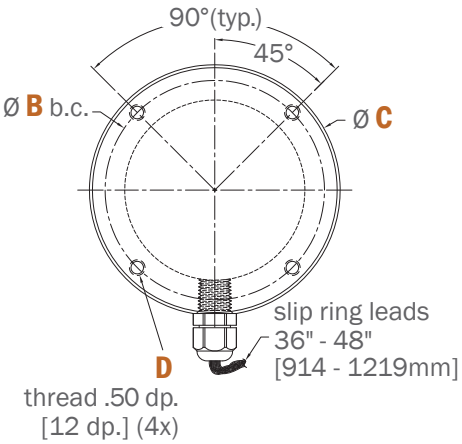
OPTIONAL O-RING FACE CONNECTION



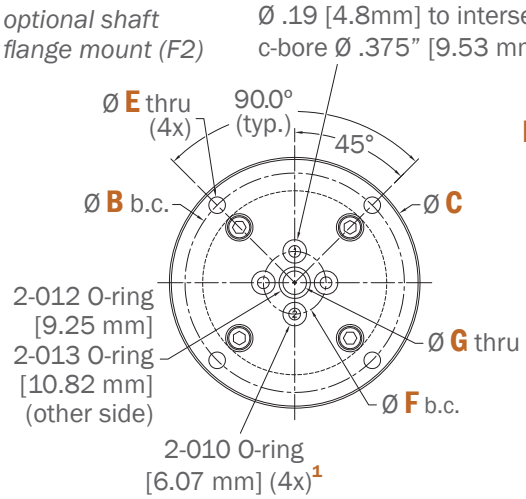
SE 4 Flow Passage: Optional Equipment

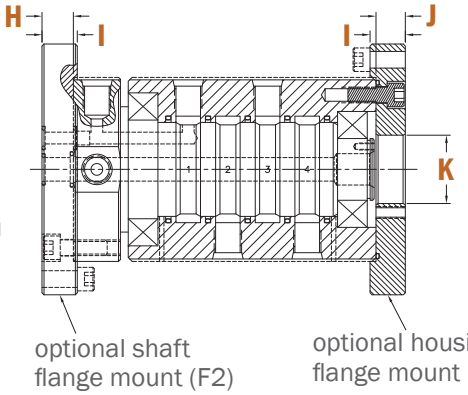


optional cover (C2)

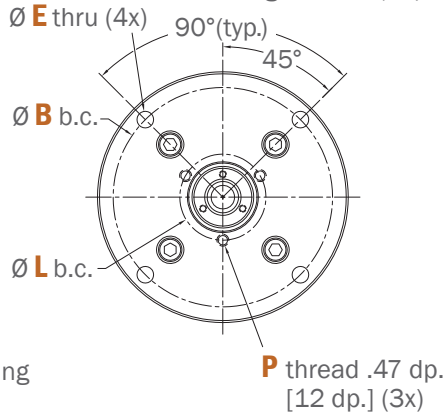


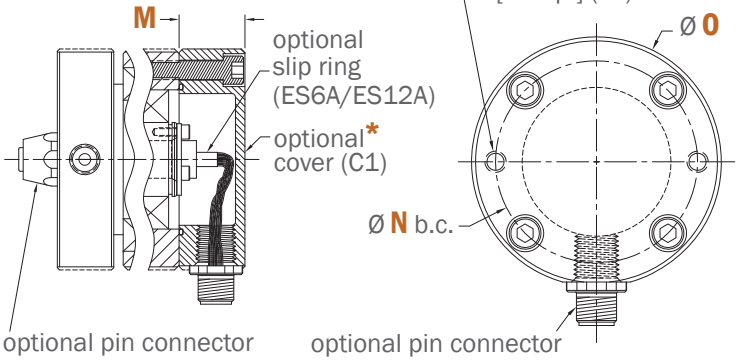
optional shaft flange mount (F2)





optional housing flange mount (F1)





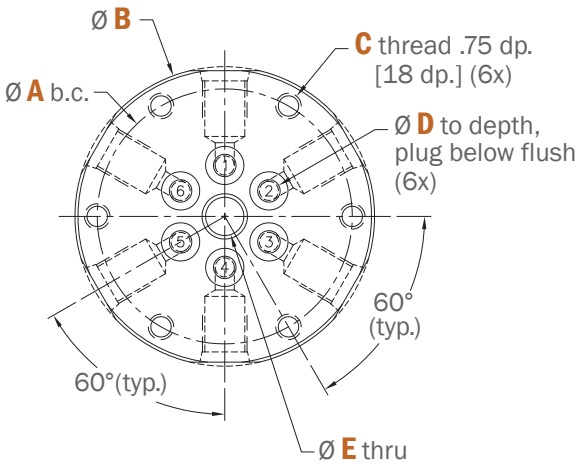
	OPTIONAL EQUIPMENT
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	1.00" [25.40mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]

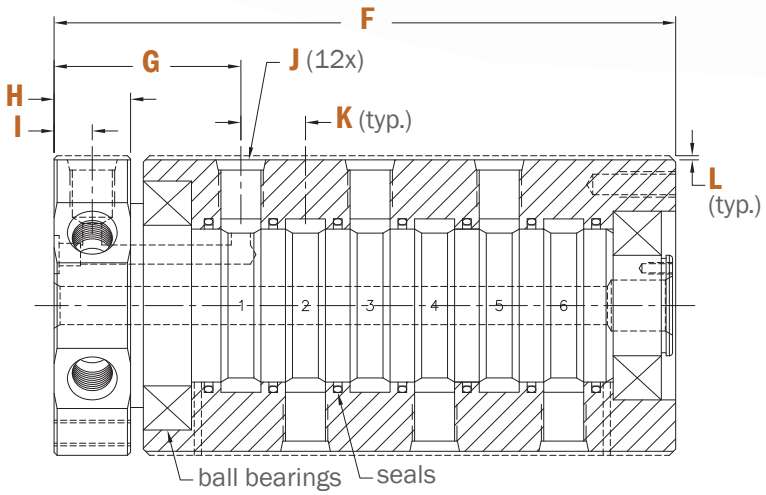
I	0.562" [14.27mm]
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	#10 - 24 UNC [M5x0.8]

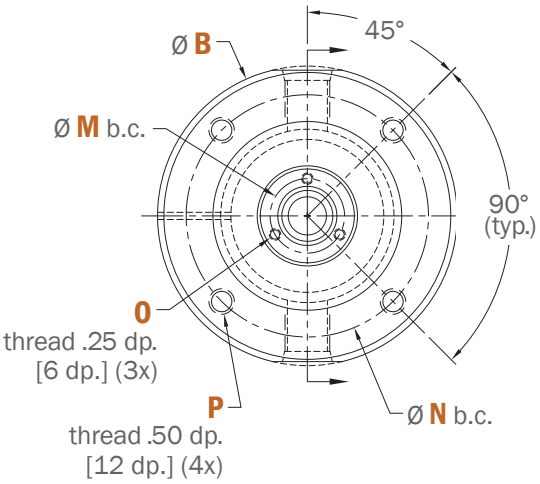
[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

SE 6 Flow Passage: Dimensions



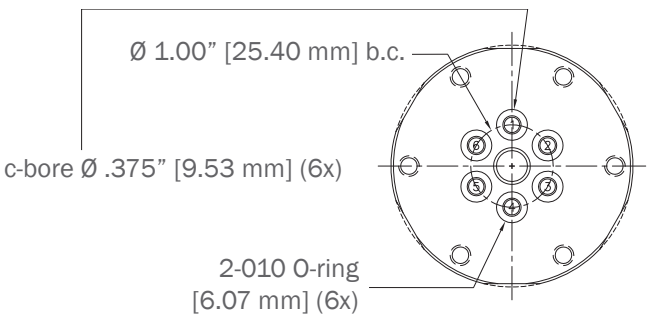




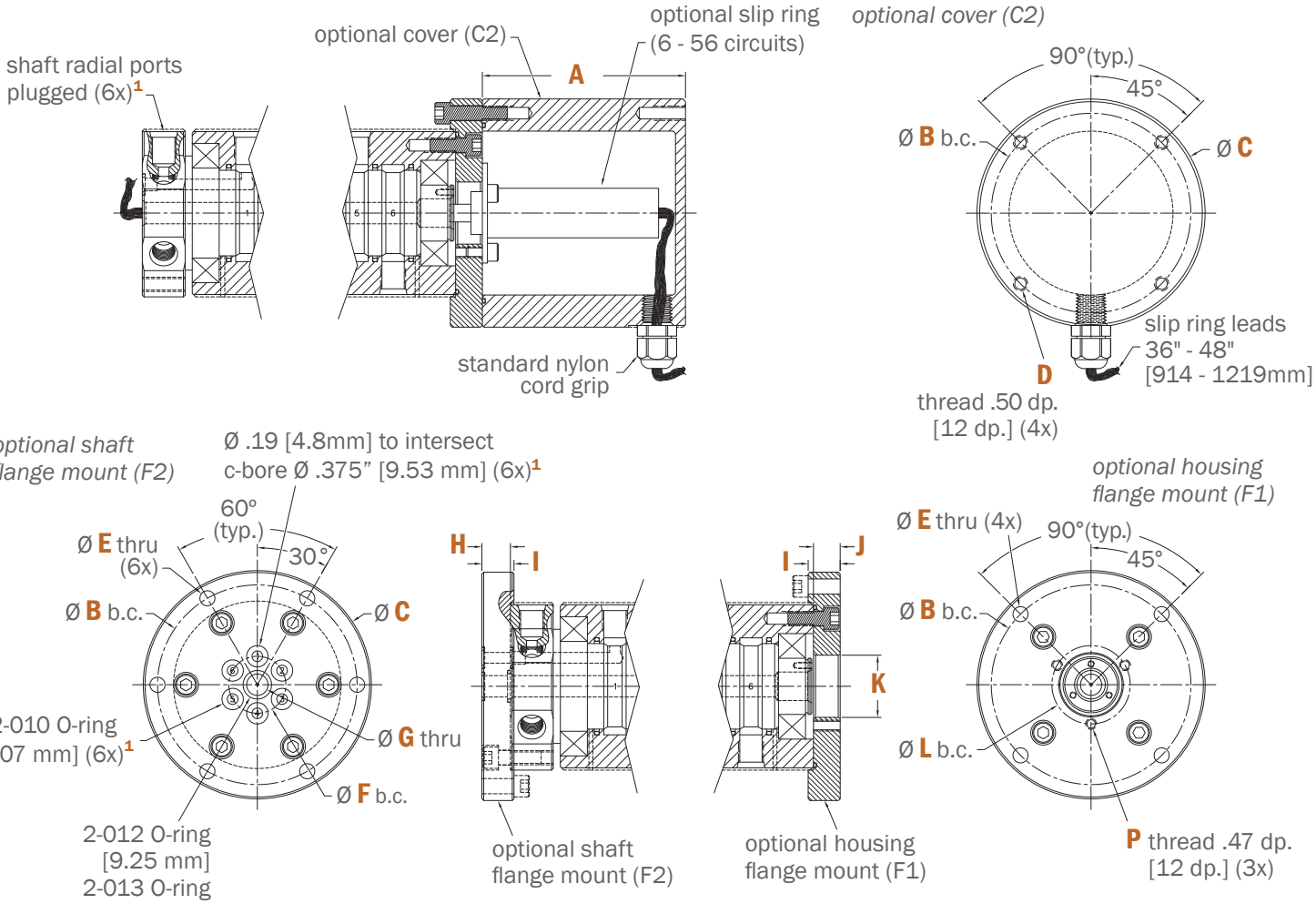
P/N	SE-1161 [SEM-1161]
A	2.500" [63.50mm]
B	2.937" [74.60mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	6.09" [154.8mm]
G	1.83" [46.5mm]
H	0.750" [19.05mm]

I	0.375" [9.53mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.63" [16.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]

OPTIONAL O-RING FACE CONNECTION



SE 6 Flow Passage: Optional Equipment



OPTIONAL EQUIPMENT	
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
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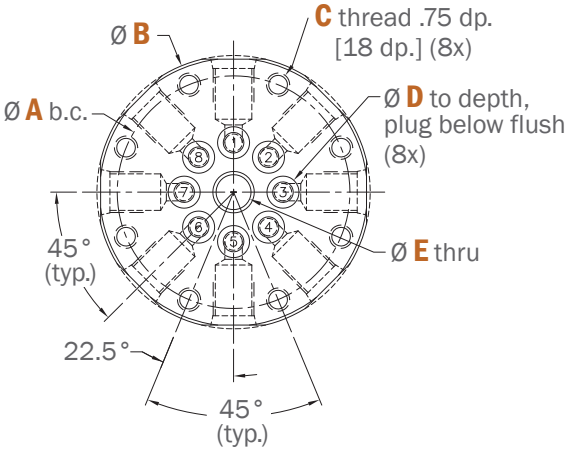
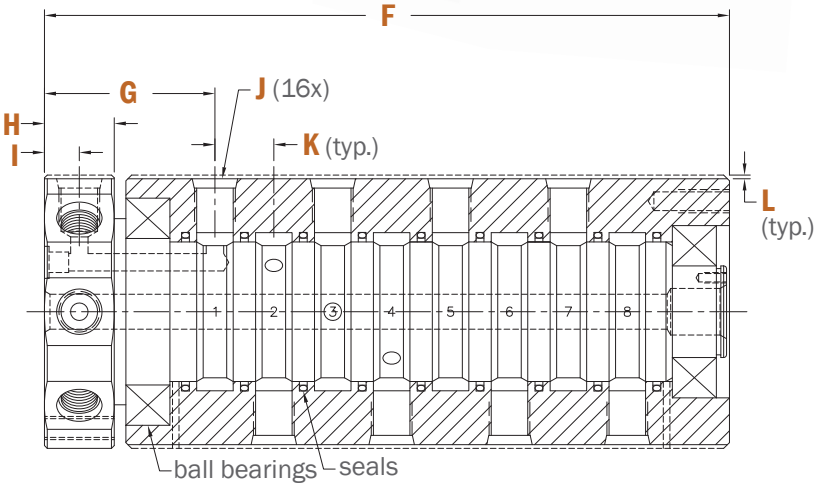
I	0.562" [14.27mm]
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	#10 - 24 UNC [M5x0.8]

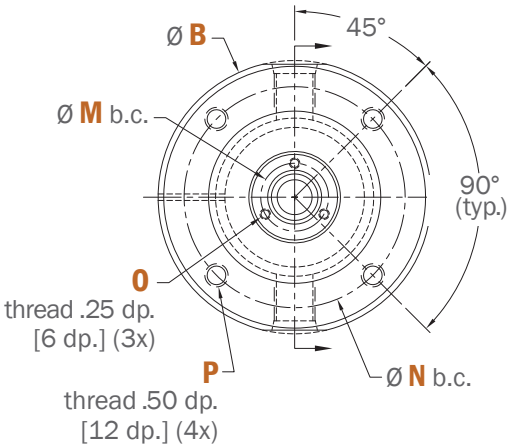
[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

SE 8 Flow Passage: Dimensions



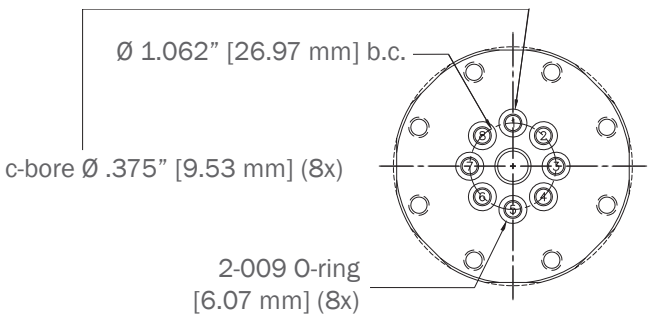




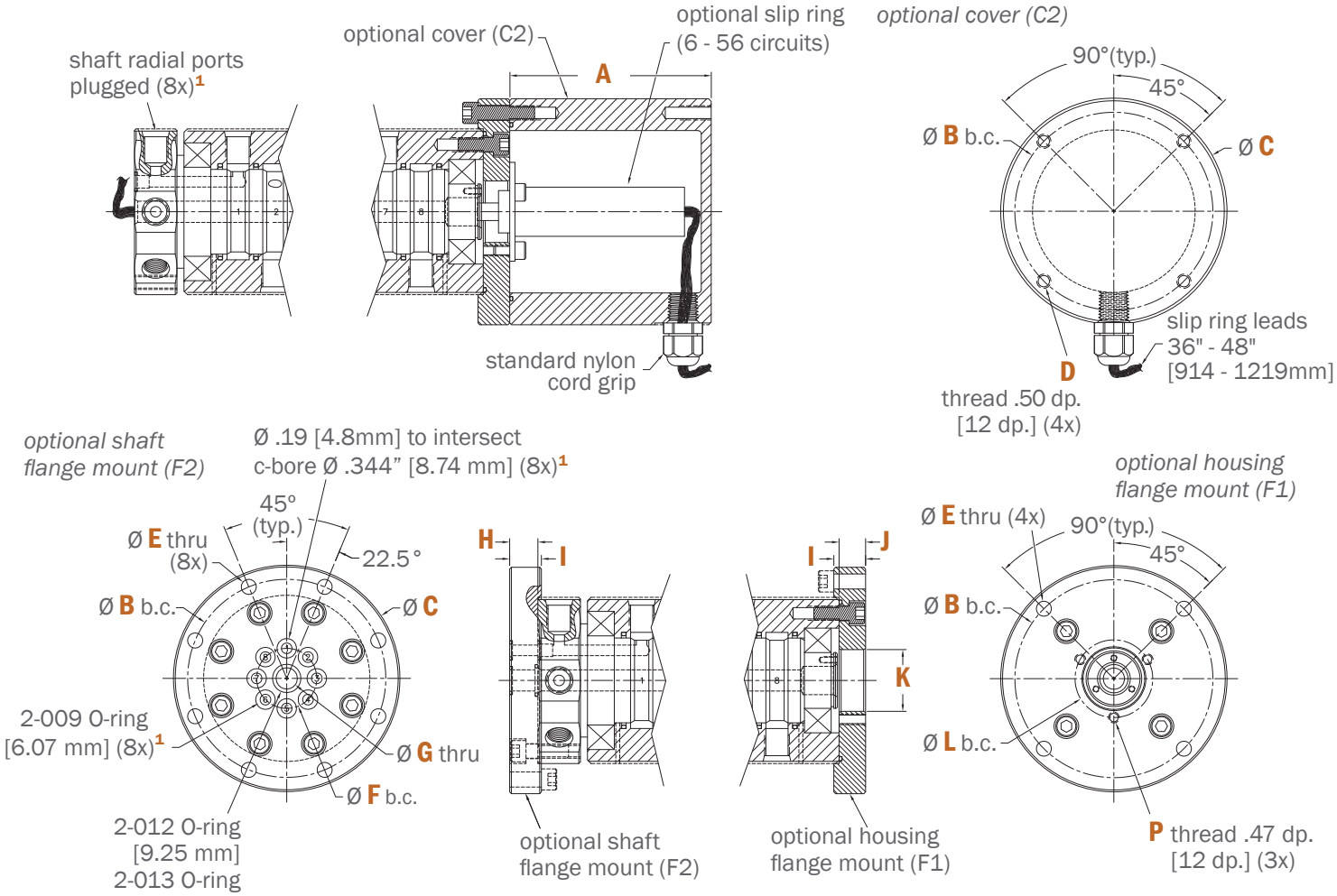
P/N	SE-1181 [SEM-1181]
A	2.500" [63.50mm]
B	2.937" [74.60mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	7.36" [186.9mm]
G	1.83" [46.5mm]
H	0.750" [19.05mm]

I	0.375" [9.53mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.63" [16.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]

OPTIONAL O-RING FACE CONNECTION



SE 8 Flow Passage: Optional Equipment



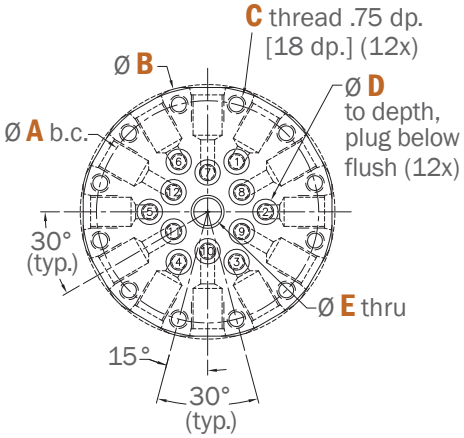
OPTIONAL EQUIPMENT	
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	1.062" [26.97mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]

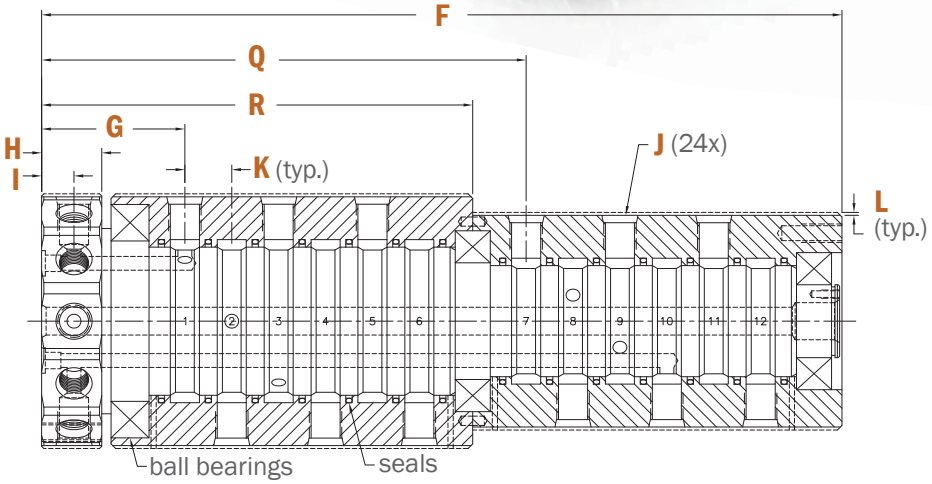
I	0.562" [14.27mm]
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	#10 - 24 UNC [M5x0.8]

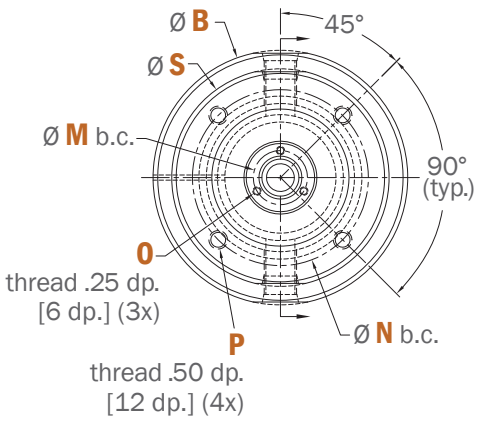
[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

SE 12 Flow Passage: Dimensions



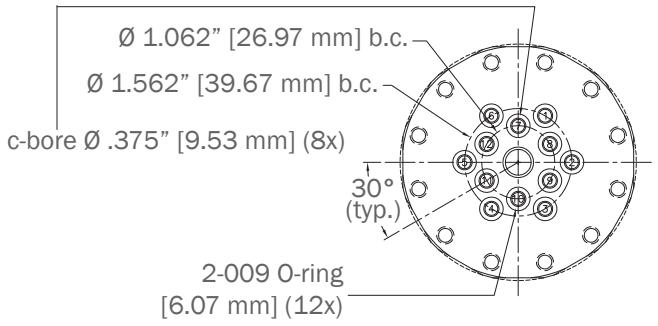




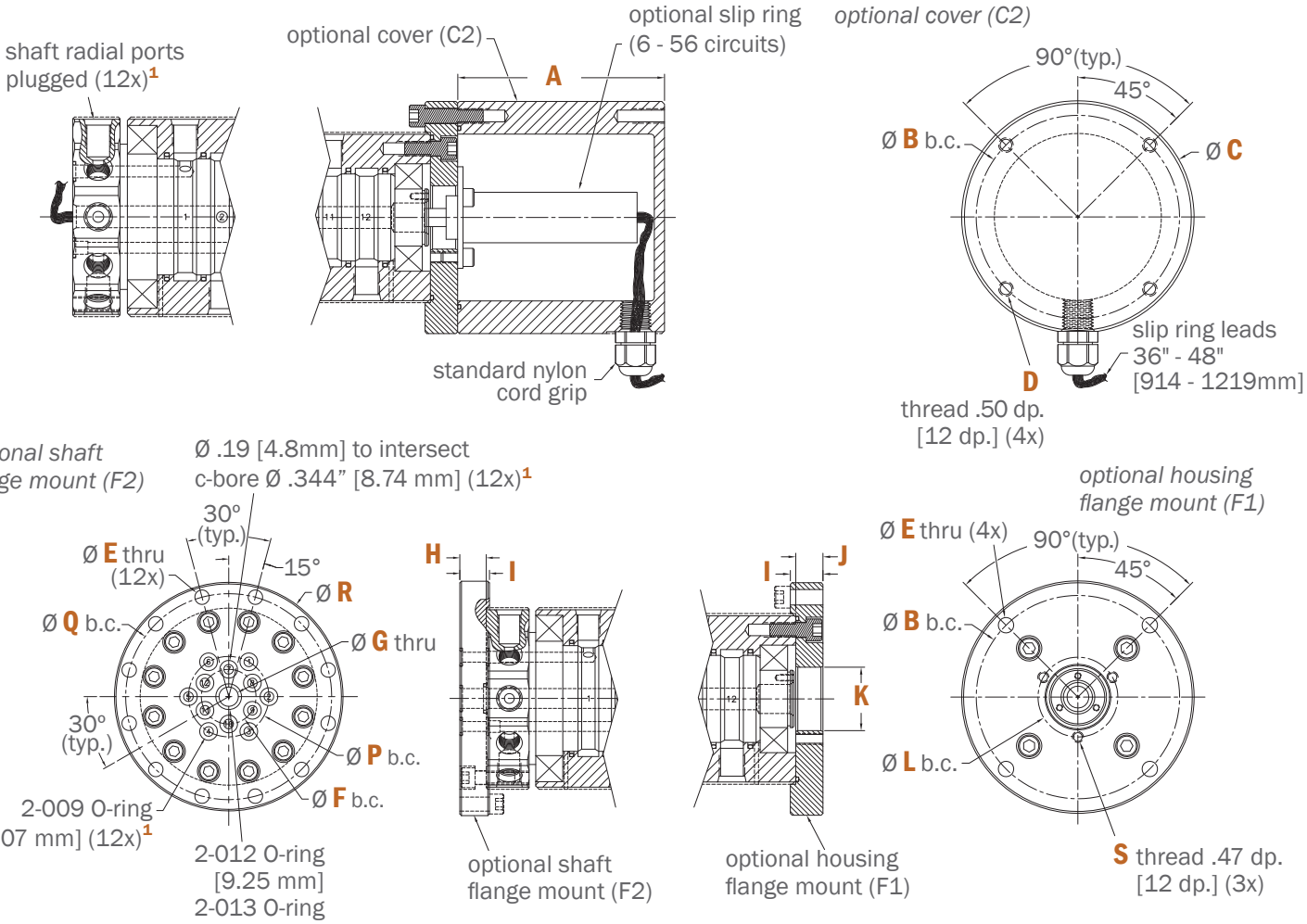
P/N	SE-11121 [SEM-11121]
A	3.000" [76.20mm]
B	3.437" [87.30mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	10.80" [274.3mm]
G	1.93" [49.1mm]
H	0.812" [20.62mm]
I	0.437" [11.10mm]

J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.63" [16.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]
Q	6.54" [166.1mm]
R	5.82" [147.8mm]
S	2.937" [74.60mm]

OPTIONAL O-RING FACE CONNECTION



SE 12 Flow Passage: Optional Equipment



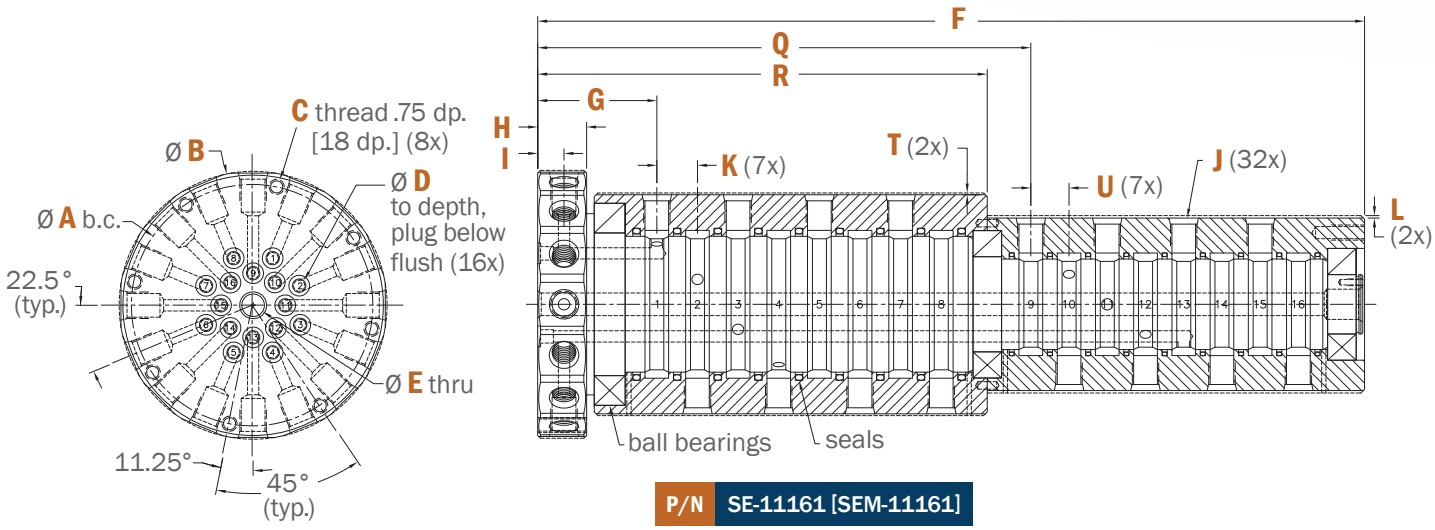
	OPTIONAL EQUIPMENT
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	1.062" [26.97mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]
I	0.562" [14.27mm]

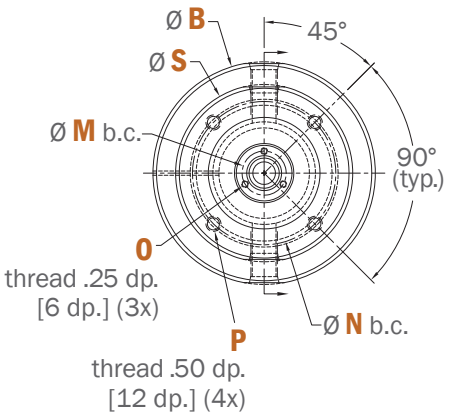
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	1.562" [39.67mm]
Q	4.000" [101.60mm]
R	4.437" [112.70mm]
S	#10 - 24 UNC [M5x0.8]

[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

SE 16 Flow Passage: Dimensions

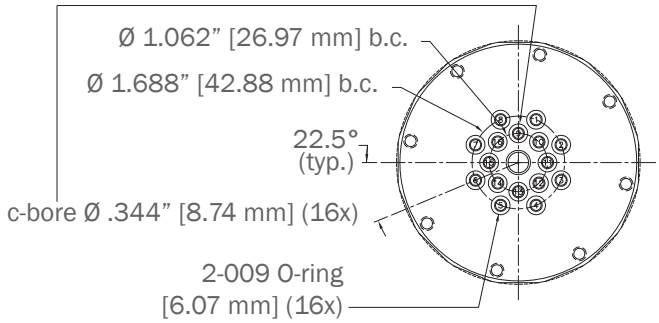




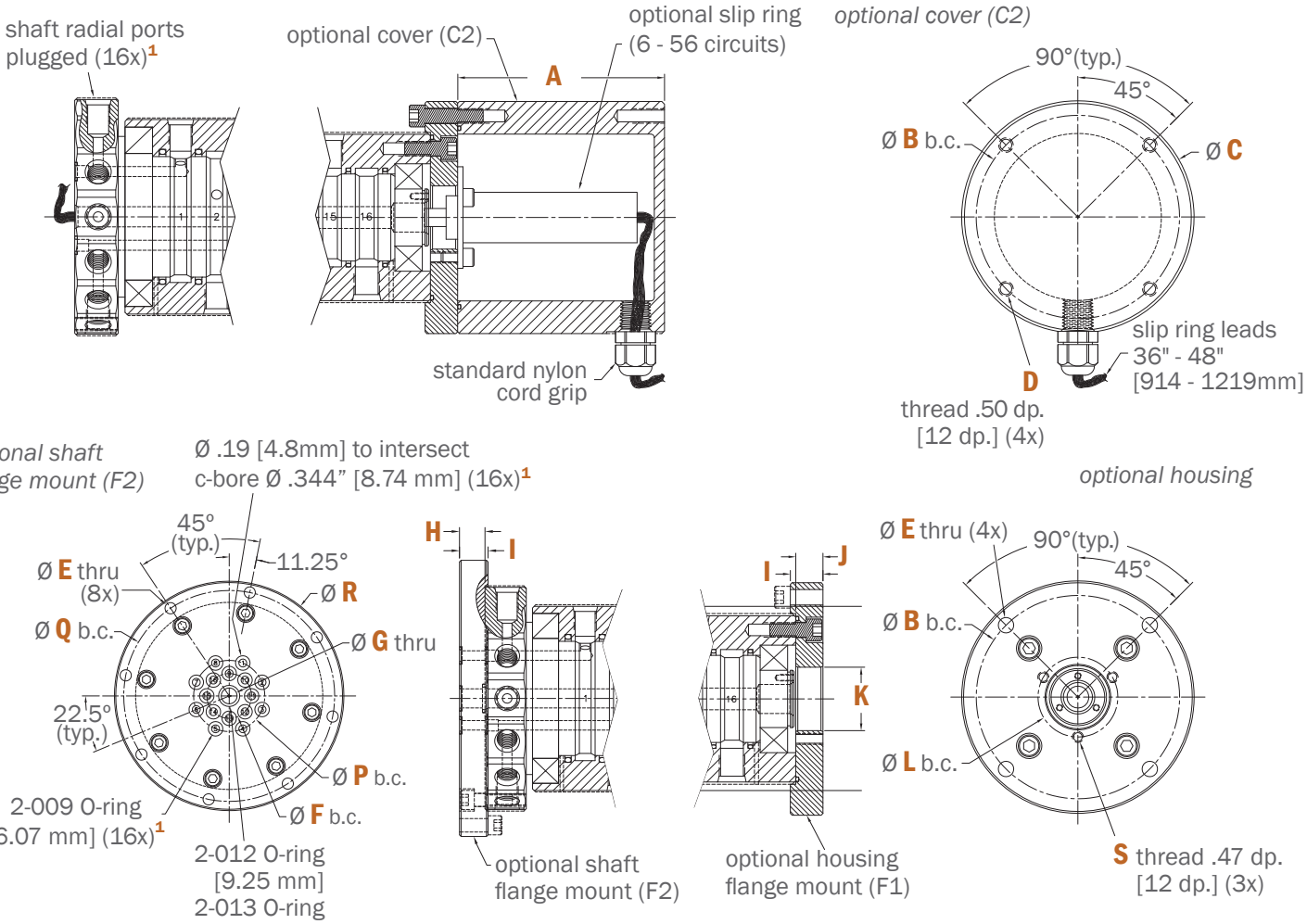
P/N	SE-11161 [SEM-11161]
A	4.000" [101.60mm]
B	4.437" [112.70mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	13.70" [347.9mm]
G	1.97" [50.1mm]
H	0.812" [20.62mm]
I	0.437" [11.10mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]

K	0.67" [17.1mm]
L	0.040" [1.02mm]
M	0.730" [18.54mm]
N	2.375" [60.33mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]
Q	8.17" [207.5mm]
R	7.45" [189.2mm]
S	2.937" [74.60mm]
T	0.030" [0.76mm]
U	0.63" [16.1mm]

OPTIONAL O-RING FACE CONNECTION



SE 16 Flow Passage: Optional Equipment



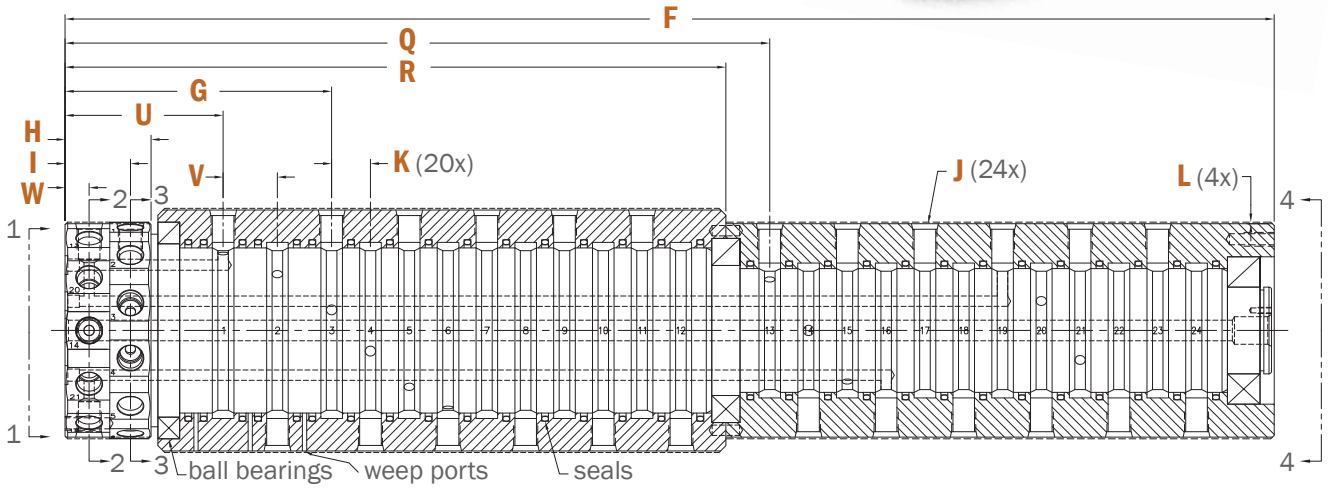
	OPTIONAL EQUIPMENT
A	3.562" [90.47mm]
B	3.500" [88.90mm]
C	3.937" [100.00mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	1.062" [26.97mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]
I	0.562" [14.27mm]

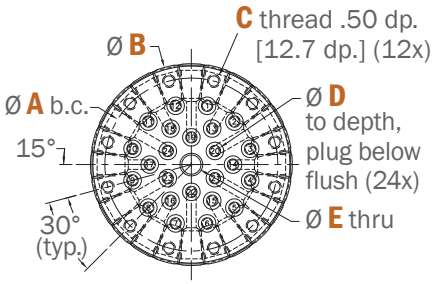
J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	2.375" [60.33mm]
O	2.937" [74.60mm]
P	1.688" [42.88mm]
Q	5.000" [127.00mm]
R	5.437" [138.10mm]
S	#10 - 24 UNC [M5x0.8]

[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

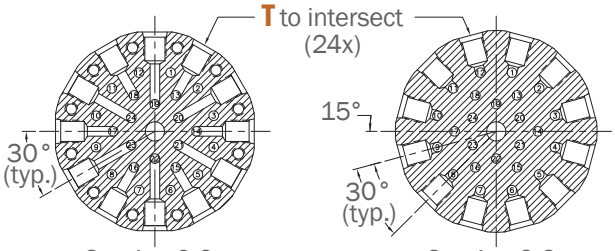
SE SERIES

SE 24 Flow Passage: Dimensions

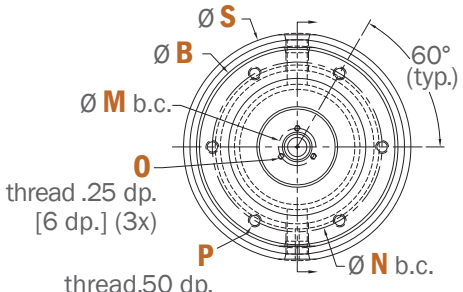




Section 1-1



Section 2-2 Section 3-3

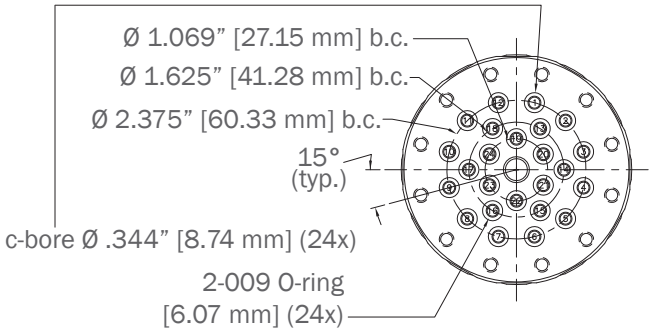


Section 4-4

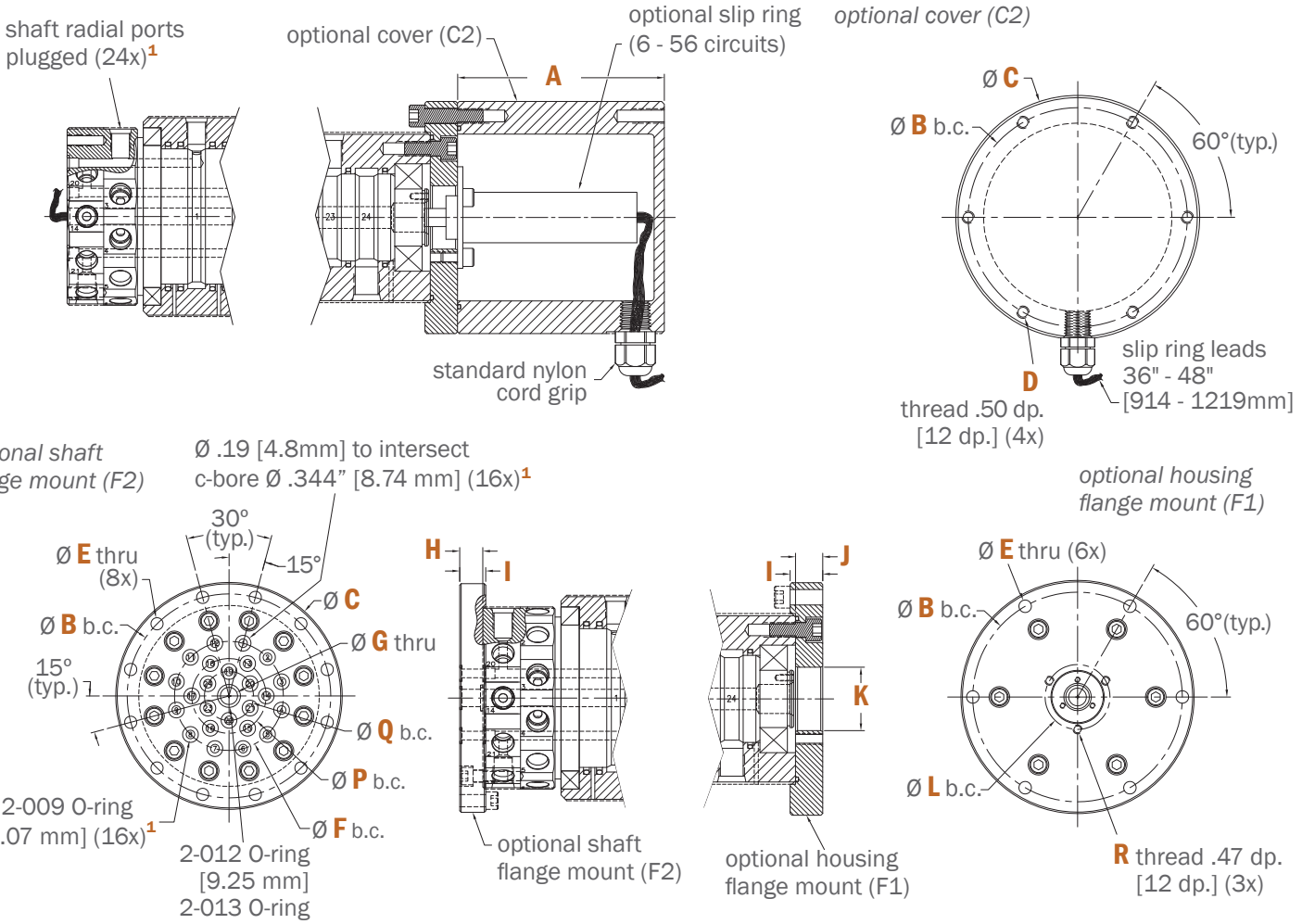
P/N	SE-11241 [SEM-11241]
A	3.375" [85.73mm]
B	3.937" [100.00mm]
C	1/4"- 20 UNC [M6x1.0]
D	0.19" [4.8mm]
E	0.38" [9.5mm]
F	21.97" [558.0mm]
G	4.84" [123.0mm]
H	1.562" [39.67mm]
I	1.187" [30.15mm]
J	#4 SAE-ORB [G1/8"-28 BSPP]
K	0.71" [17.9mm]

L	0.030" [0.76mm]
M	0.730" [18.54mm]
N	3.313" [84.15mm]
O	#4-40 UNC [M3x0.5]
P	1/4"- 20 UNC [M6x1.0]
Q	12.80" [325.2mm]
R	12.01" [305.0mm]
S	4.437" [112.70mm]
T	#4 SAE-ORB 0.19" [4.8mm]
U	2.87" [72.9mm]
V	0.99" [25.0mm]
W	0.437" [11.10mm]

OPTIONAL O-RING FACE CONNECTION



SE 24 Flow Passage: Optional Equipment



	OPTIONAL EQUIPMENT
A	3.562" [90.47mm]
B	4.438" [112.73mm]
C	4.938" [125.43mm]
D	1/4"- 20 UNC [M6x1.0]
E	0.265" [6.73mm]
F	2.375" [60.33mm]
G	0.38" [9.5mm]
H	0.500" [12.70mm]
I	0.562" [14.27mm]

J	0.468" [11.89mm]
K	1.090" [27.69mm]
L	1.374" [34.90mm]
M	0.875" [22.23mm]
N	3.313" [84.15mm]
O	3.937" [100.00mm]
P	1.625" [41.28mm]
Q	1.069" [27.15mm]
R	#10 - 24 UNC [M5x0.8]

[1] Values only apply to models with the shaft o-ring face seal option ("-OF") requested.

SE SERIES

Electrical Slip Ring Options

- Ethernet Slip Rings Available
- 100 BaseT & 1000 BaseT Ethernet Connections
- High Quality Gold on Gold Contacts
- Low Electrical Noise
- Analog/Digital Transfer
- Cord Sets & Pin Connectors Options
- Compatible With a Range of Data Bus Protocols

AVAILABLE SLIP RINGS[1]

PART #	# OF CIRCUITS	MAX AMPS/ CIRCUIT	MAX VOLTS/ CIRCUIT
ES6A	6	2	120
ES6	6	2	210
ES12A	12	2	120
ES12	12	2	210
ES18	18	2	210
ES24	24	2	210
ES36	36	2	210
ES56	56	2	210
ESE64[2]	10	(6x) 2A	240
ESE264[2]	12	(2x) 5A, (6x) 2A	240
ESE224[2]	8	(2x) 10A, (2x) 2A	240
ESE2124[2]	18	(2x) 5A, (12x) 2A	240
ESE284[2]	14	(2x) 10A, (8x) 2A	240
ESE438[3]	51	(43x) 2A	240
ESE4358[3]	47	(4x) 5A, (35x) 2A	240
ESE2358[3]	45	(2x) 10A, (35x) 2A	240
ESE8278[3]	43	(8x) 5A, (27x) 2A	240
ESE24278[3]	41	(2x) 10A, (4x) 5A, (27x) 2A	240

PART #	# OF CIRCUITS	MAX AMPS/ CIRCUIT	MAX VOLTS/ CIRCUIT
ESM36	9	(3x) 10A, (6x) 2A	210
ESM312	15	(3x) 5A, (12x) 2A	210
ESM420	24	(4x) 10A, (20x) 2A	210
ESM428	32	(4x) 5A, (28x) 2A	210
ESM440	44	(4x) 10A, (40x) 2A	210
ESM448	52	(4x) 5A, (48x) 2A	210

[1] All slip ring lead wire lengths are 48" (1219mm)
[2] 100 BaseT Ethernet connections
[3] 1000 BaseT Ethernet connections

Installation & Mounting

THESE INSTRUCTIONS ARE INTENDED TO BE USED AS A GENERAL GUIDE, PLEASE CONSULT THE FACTORY TO DISCUSS ANY SPECIFIC QUESTIONS RELATED TO YOUR INSTALLATION.

PREPARATION:

Remove the rotary union from the shipping container. Inspect the entire assembly, including all passage connections to make sure that they are clean and no visual damage occurred during transport. If the assembly is a rotary union/electrical slip ring, the electrical slip ring may be packaged separately to protect during shipping. If this is the case, mount the electrical slip ring to the rotating union assembly using the supplied hardware.

RECOMMENDED ROTARY UNION INSTALLATION PRACTICE:

DSTI does not recommend mounting the rotary union with both the shaft & housing components solidly bolted into place. One of the two components should be mounted in a manner that allows for some movement in the event of misalignment or run-out during rotation. Using only the supply lines or hoses to fix the stationary component in place is also not recommended. An anti-rotation arm that attaches to the stationary part of the rotary union assembly and rests against part of the equipment framework is recommended (see figure 1.1).

MOUNTING A ROTARY UNION W/ AN ELECTRICAL SLIP RING:

Make sure the electrical wiring is fixed in place and protected from contact with other components or equipment. Care should be taken to make sure the slip ring area remains clean and dry during use.

SHAFT MOUNTING: O-RING MANIFOLD TYPE:

Make sure the rotary union shaft face & equipment mounting surface is clean and free from dents or chips to insure proper installation. Equipment pilot bore needs to be concentric to the center line of the rotary union shaft to assure proper function. Install face mount O-rings into groove or counter bore in rotating union shaft face. General assembly grease can be used as needed to hold O-rings into place during assembly. Align rotary union shaft with equipment pilot bore and flow passages, then insert into place. Bolt assembly into place using tapped holes or mounting flange on rotary union face.

SHAFT MOUNTING, THREADED CONNECTIONS:

When mounting the shaft using threaded connections, make sure all fittings are properly tightened & pipe thread sealant is used as required. Equipment mounting surface needs to be concentric to the center line of the rotary union shaft to assure proper function. After all fittings are in place, bolt assembly into place using tapped holes or mounting flange on rotating union shaft.

INITIAL START-UP:

After rotary union is installed, a dry run is recommended to assure proper mounting of the rotating union assembly. Begin rotation of the equipment, and verify that while rotating at the maximum operating speed there is no visible movement of the rotary union assembly due to misalignment.

FIGURE 1.1

WARRANTY:

DSTI Warrants, for a period of 2 years from the date of original delivery, its products to be free from defects in material and workmanship. DSTI's obligation under this warranty is limited to repair or replacement at it's factory of any part or parts of said products which shall be returned to DSTI with transportation charges prepaid and which DSTI's examination shall disclose to it's satisfaction to have been defective. Under no circumstances shall DSTI be held liable for loss, damage, cost of repair of consequential damages of any kind in connection with the sale, use or repair of any product purchased from DSTI. Warranty is subject to change.

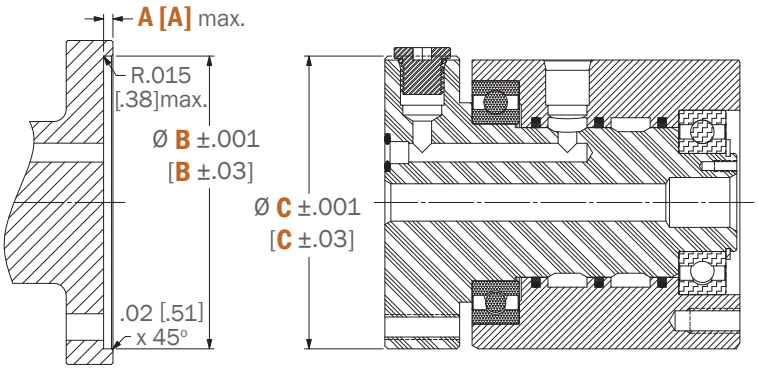
SE SERIES

Customer Interface

(2 - 24 passage models)

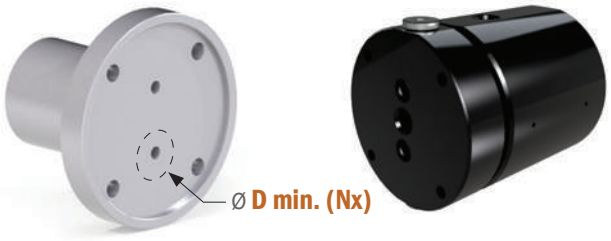
Customer Interface Example

SE Union



Customer Interface Example

SE Union



PART #	A	B	C	D (Nx)
SE(M)-1121	0.078" [1.98mm]	2.940" [74.68mm]	2.937" [74.60mm]	0.375" [9.53mm] (2x)
SE(M)-1141	0.078" [1.98mm]	2.940" [74.68mm]	2.937" [74.60mm]	0.375" [9.53mm] (4x)
SE(M)-1161	0.078" [1.98mm]	2.940" [74.68mm]	2.937" [74.60mm]	0.375" [9.53mm] (6x)
SE(M)-1181	0.078" [1.98mm]	2.940" [74.68mm]	2.937" [74.60mm]	0.344" [8.74mm] (8x)
SE(M)-11121	0.141" [3.58mm]	3.440" [87.38mm]	3.437" [87.30mm]	0.344" [8.74mm] (12x)
SE(M)-11161	0.141" [3.58mm]	4.440" [112.78mm]	4.437" [112.70mm]	0.344" [8.74mm] (16x)
SE(M)-11241	0.141" [3.58mm]	3.940" [100.08mm]	3.937" [100.00mm]	0.344" [8.74mm] (24x)

Notes

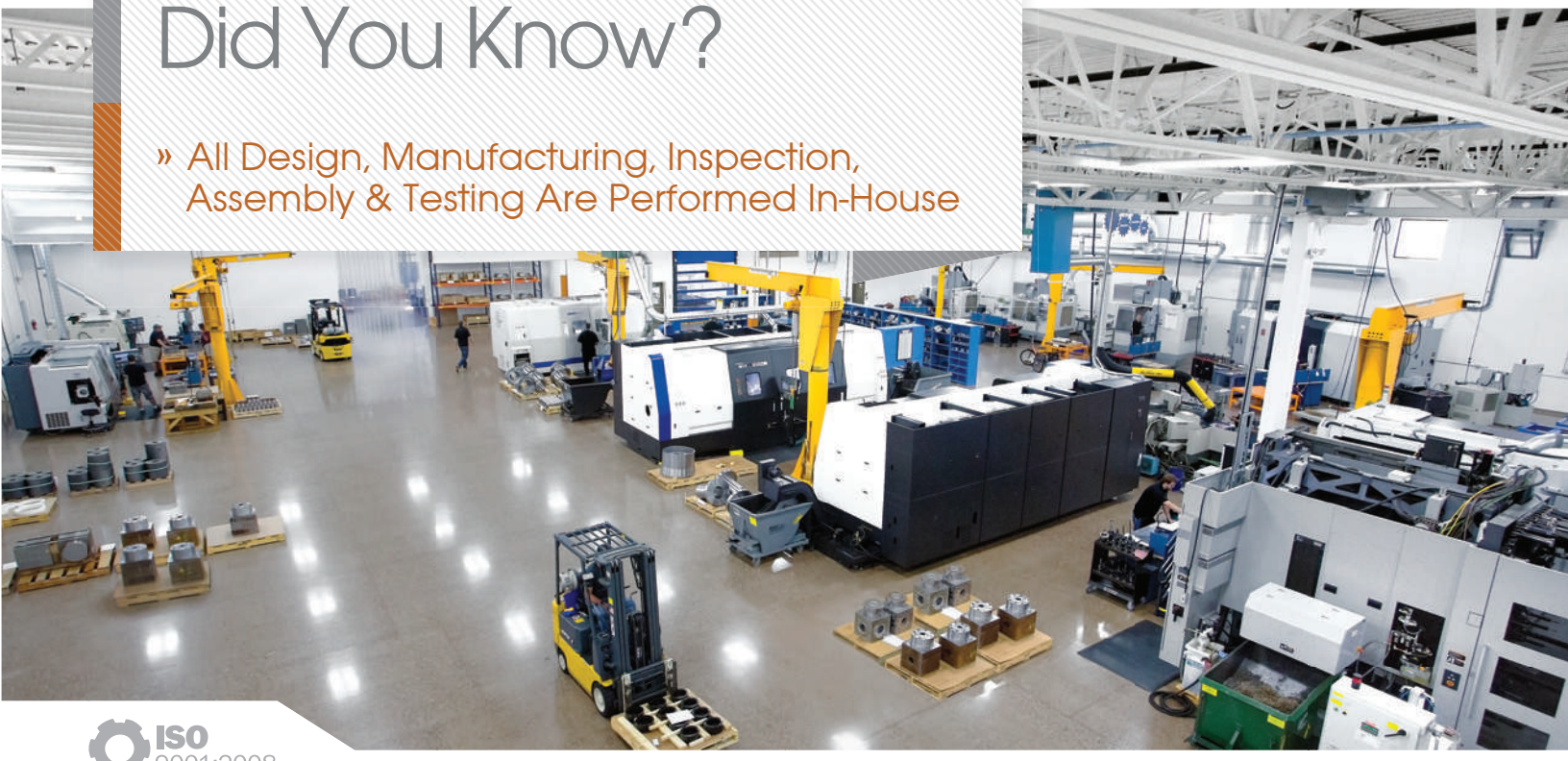
Proven Expertise. Trusted Solutions.

Adhering to stringent quality assurance procedures and verification processes, our team designs and manufactures purpose-built rotary union and electrical slip ring products tailored to meet application-specific performance requirements.

DSTI has partnered with GE, NASA, 3M, Halliburton, the U.S. Army and numerous other organizations and fortune 500 companies – with hundreds of unique and specialized designs successfully operating in a diverse range of critical environments and applications.

Did You Know?

» All Design, Manufacturing, Inspection, Assembly & Testing Are Performed In-House



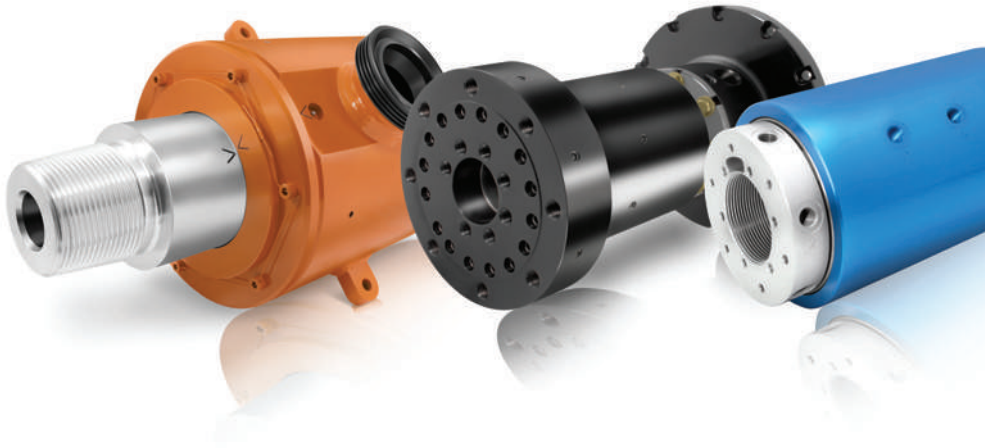
ISO 9001:2008

Engineered to your Needs

At DSTI, our product solutions are directly influenced by the industries we serve. If an existing product isn't a perfect fit for our customers' applications, we provide specialized design and manufacturing services to meet the needs of their specifications.

To see examples of our specialized solutions, please visit:

www.dsti.com/industries



DSTI

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Revision 1.3
Publish Date: 2016-05-25