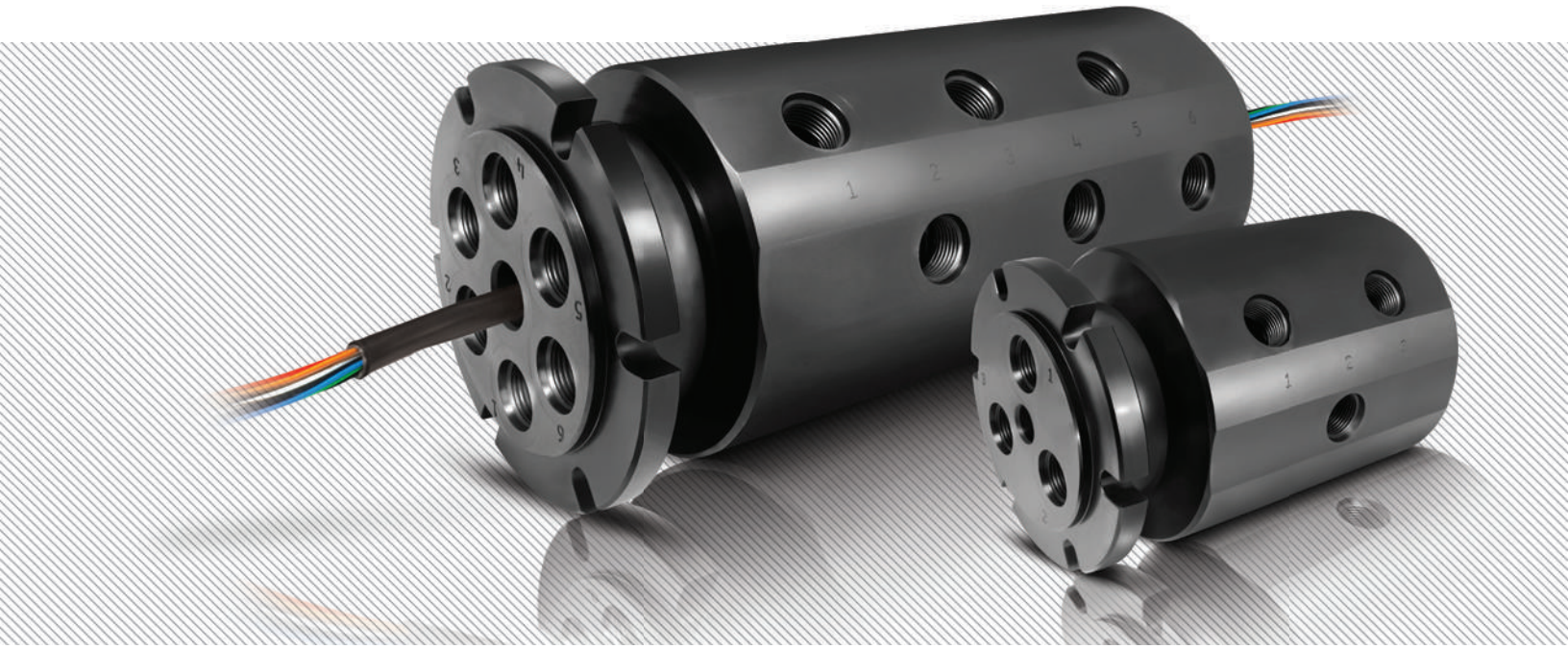
HIGH VOLUME + CORROSION RESISTANT

Rotary Union Solutions



HVH Series

FLOW PASSAGE OPTIONS

3 4 6 8

ISO 9001:2008

DSTI

DYNAMIC SEALING TECHNOLOGIES, INC

HVH 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.

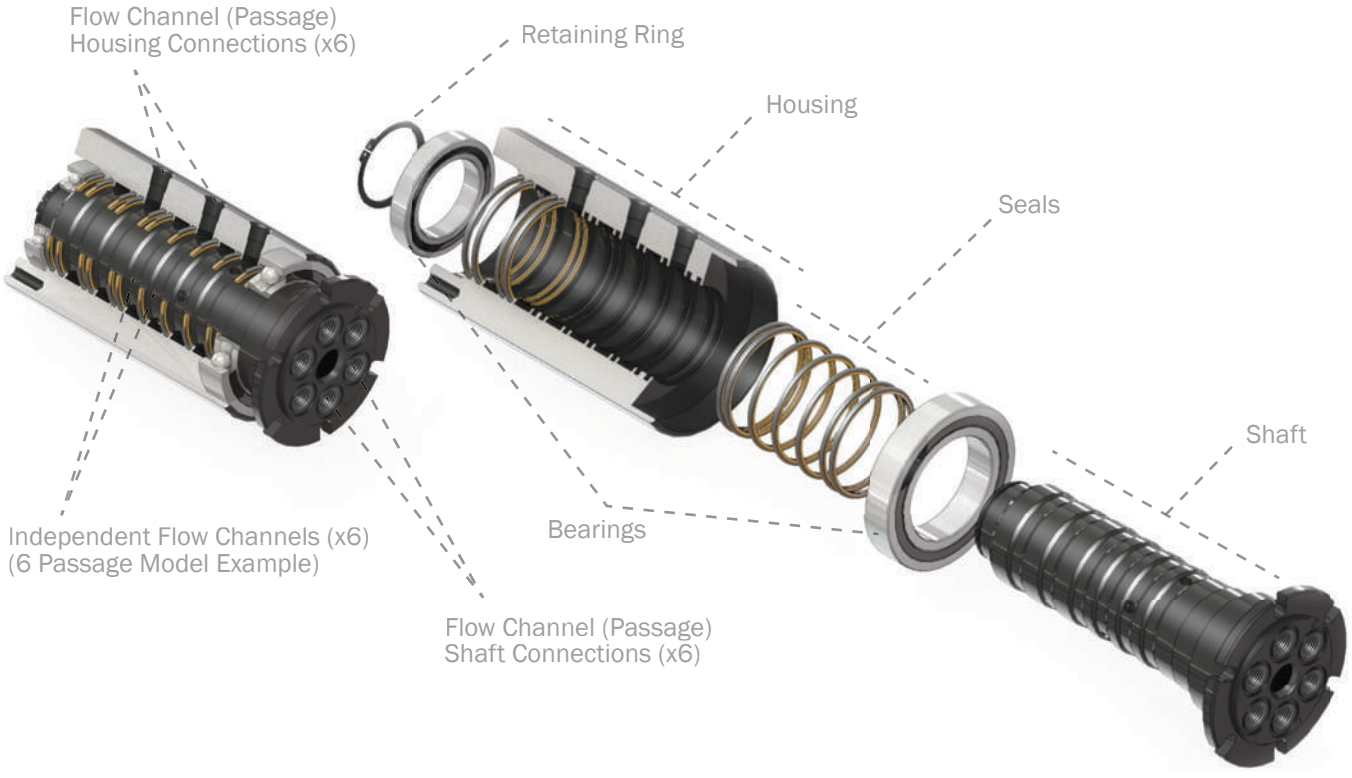
See examples at **www.dsti.com/industries**

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.*



HVH SERIES

HVH Series Overview

- Suitable For Vacuum & Bidirectional Pressures Up To 5000 PSI
- Large Flow Passages & Increased Flow Volume
- Protected Ball Bearing Design Suitable For Harsh Environments (not designed for any external loads)
- Heavy-Duty Alloy Steel Construction
- Corrosion Resistant Nitride Surface Treatment
- Electrical Slip Ring Options Available
- Aluminum Slip Ring Cover Option To Protect Slip Ring In Harsh Environments

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

HVH — 3 5 3 1 — ES12 — C

HVH	HVH Series (SAE-ORB Connection - UN Threads)
HVHM	HVHM Series (BSPP Connection - BSPP Threads)

3	Product Series (HVH)

5	0.75" (19.1mm) *#12 SAE-ORB (1-1/16"-12 UN) [G3/4"-14 BSPP])*
6	0.88" (22.2mm) *#16 SAE-ORB (1-5/16"-12 UN) [G1"-11 BSPP]*
7	1.25" (31.8mm) *#20 SAE-ORB (1-5/8"-12 UN) [G1 1/4"-11 BSPP]*
8	1.50" (38.1mm) *#24 SAE-ORB (1-7/8"-12 UN) [G1-1/2"-11 BSPP]*

3	3 Flow Passages
4	4 Flow Passages
6	6 Flow Passages
8	8 Flow Passages

1	Thru-bore

NOTE All HVH Series rotary unions include thru-bores.

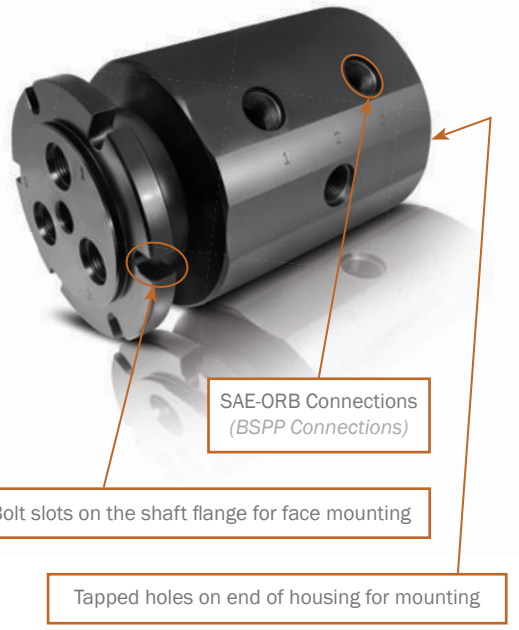
OPTIONS	See Next Page

EXAMPLES

HVH-3531
- HVH 3 Passage with #12 SAE-ORB (1-1/16"-12 UN) Connections and a thru-bore

HVH-3661
- HVH 6 Passage with #16 SAE-ORB (1-5/16"-12 UN) Connections and a thru-bore

HVHM-3741
- HVH 4 Passage with G1-1/4"-11 BSPP Connections and a thru-bore



HVH SERIES

How to Order: Choose your Options

EXAMPLE

HVH – 3 5 3 1 – ES12 – C1

C1 Optional Cover For ES, ESE and ESM Series Slip Rings

Optional Electrical Slip Rings[1]

(see Electrical Slip Ring Options on page 14 for full specifications)

ESx	6 - 56 Circuits 210 Volts
ESEx	8 - 51 Circuits 240 Volts Ethernet
ESMx	9 - 52 Circuits 120/210 Volts
ESTx	6 - 24 Circuits 600 Volts
ESETx	4 - 22 Circuits 600 Volts Ethernet

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

EXAMPLE

HVH-3631-ESM36-C1

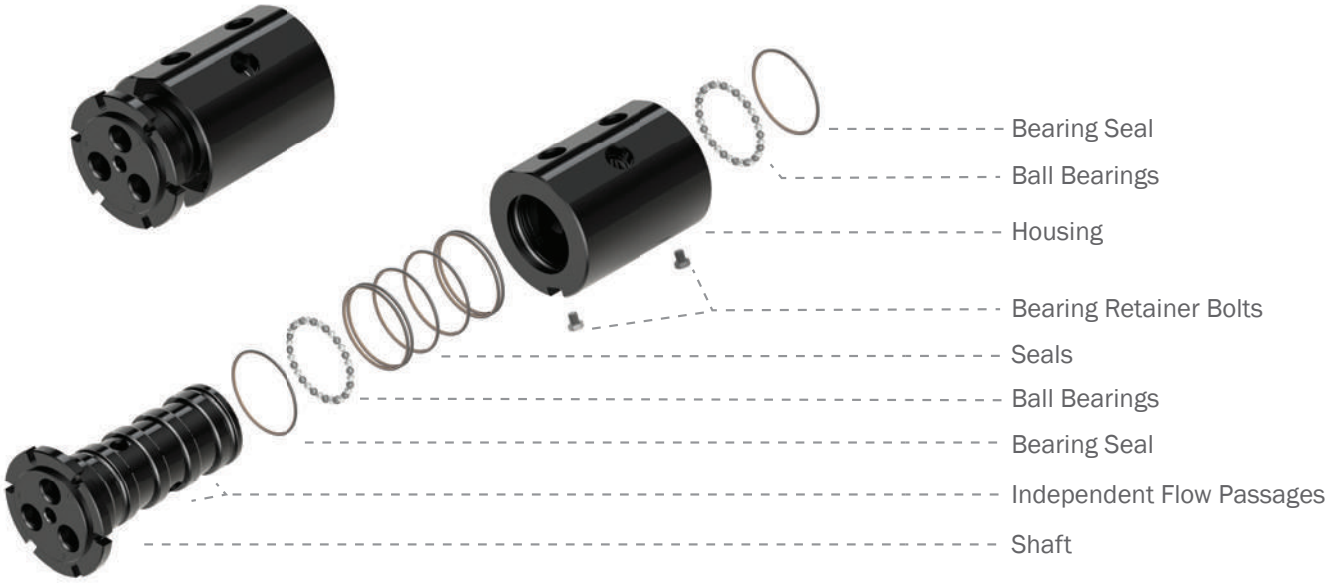
HVH 3 Passage model with thru-bore, #16 SAE-ORB connections with an ESM36 electrical slip ring and optional protective aluminum cap.

EXAMPLE

HVH-3631-EST6

HVH 3 Passage with thru-bore, #16 SAE-ORB connections with an EST6 thru-bore slip ring and required adapter.

Specifications & Operating Information



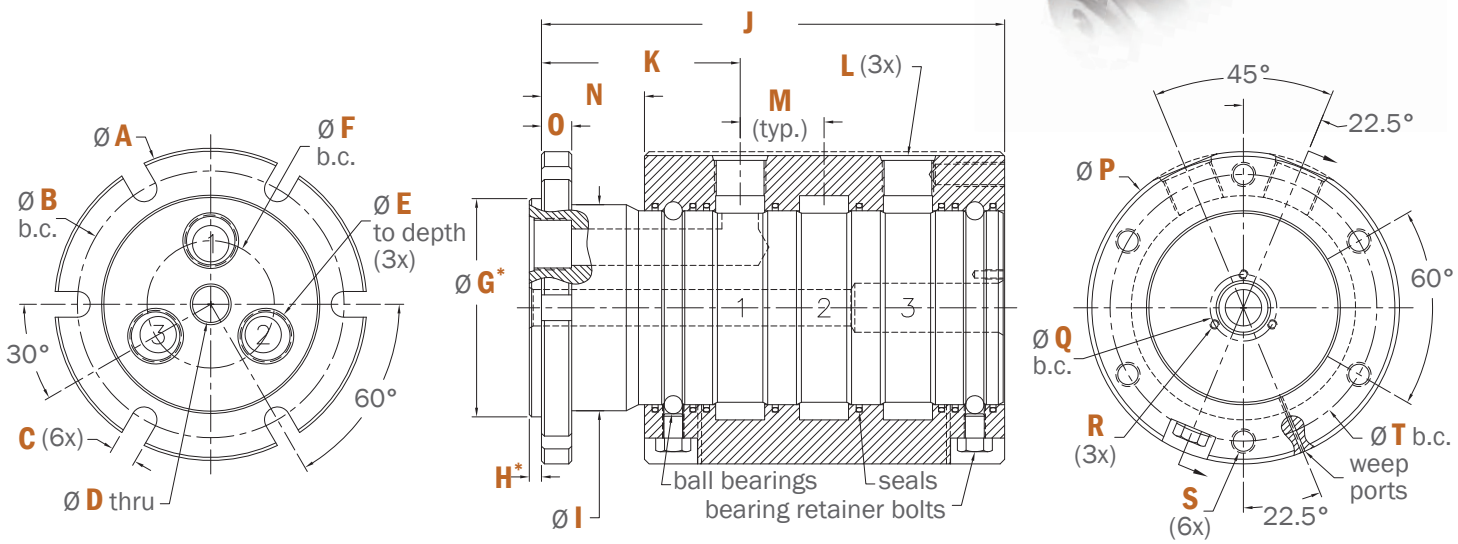
Flow Passage Options	3	4	6	8
Media Types	Oil, Water/Glycol, Air/Gas			
Passage Sizes	0.75" (19.1mm) , 0.88" (22.2mm), 1.25" (31.8mm) , 1.50" (38.1mm)			
Connection Types	SAE-ORB, [BSPP]			
Max. Operating Pressure	5,000 PSI (345 BAR)[1]			
Max. Vacuum	30 HG			
Max. Rotational Speed	50 RPM[1]			
Operating Temperature	0° F to 220° F (-18° C to 105° C)[2]			
Body Material Type	Alloy Steel			
Platings and Coatings	Nitride			
Slip Ring Options	Full line of Electrical Slip Rings and Custom options available. See pg. 14			
Mounting Options	Tapped holes on the end of the housing & bolt slots on the shaft flange.			

[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.

HVH SERIES

HVH 3 Flow Passage: Dimensions



P/N	HVH-3531
A	6.438" [163.53mm]
B	5.500" [139.70mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#12 SAE [G3/4"-14 BSPP]
F	2.625" [66.68mm]
G	4.500" [114.30mm]
H	0.250" [6.35mm]
I	4.25" [108.0mm]
J	9.55" [242.6mm]
K	4.10" [104.1mm]
L	#12 SAE [G3/4"-14 BSPP]
M	1.730" [43.94mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	6.438" [163.53mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	5.500" [139.70mm]

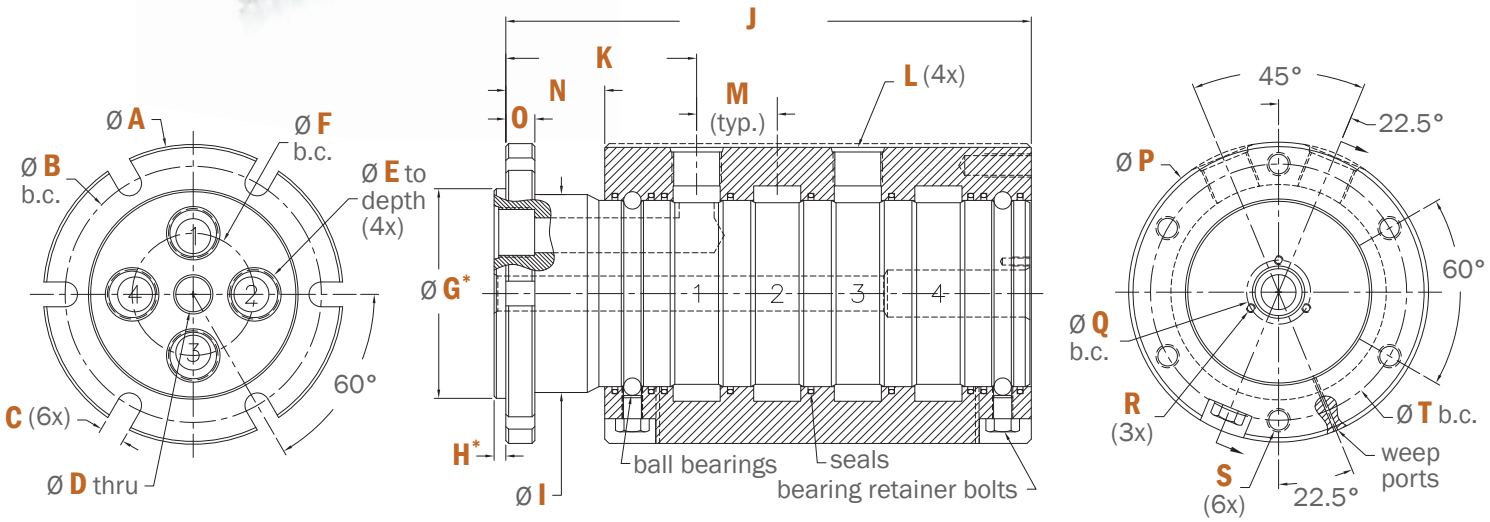
P/N	HVH-3631
A	6.438" [163.53mm]
B	5.500" [139.70mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#16 SAE [G1"-11 BSPP]
F	2.750" [69.85mm]
G	4.750" [120.65mm]
H	0.250" [6.35mm]
I	4.38" [111.1mm]
J	10.30" [261.7mm]
K	4.22" [107.3mm]
L	#16 SAE [G1"-11 BSPP]
M	1.980" [50.29mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	6.438" [163.53mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	5.500" [139.70mm]

P/N	HVH-3731
A	7.438" [188.93mm]
B	6.500" [165.10mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#20 SAE [G1-1/4"-11 BSPP]
F	3.125" [79.38mm]
G	5.500" [139.70mm]
H	0.375" [9.53mm]
I	5.25" [133.4mm]
J	11.37" [288.8mm]
K	4.51" [114.4mm]
L	#20 SAE [G1-1/4"-11 BSPP]
M	2.294" [58.27mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	7.438" [188.93mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	6.500" [165.10mm]

P/N	HVH-3831
A	8.938" [227.03mm]
B	7.875" [200.03mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#24 SAE [G1-1/2"-11 BSPP]
F	3.500" [88.90mm]
G	6.500" [165.10mm]
H	0.375" [9.53mm]
I	6.25" [158.8mm]
J	12.32" [313.0mm]
K	4.68" [118.8mm]
L	#24 SAE [G1-1/2"-11 BSPP]
M	2.585" [65.66mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	8.938" [227.03mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	8.000" [203.20mm]

* Critical tolerances listed in the Customer Interface Section. See page 16

HVH 4 Flow Passage: Dimensions



P/N	HVH-3541
A	6.438" [163.53mm]
B	5.500" [139.70mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#12 SAE [G3/4"-14 BSPP]
F	2.625" [66.68mm]
G	4.500" [114.30mm]
H	0.250" [6.35mm]
I	4.25" [108.0mm]
J	11.28" [286.6mm]
K	4.10" [104.1mm]
L	#12 SAE [G3/4"-14 BSPP]
M	1.730" [43.94mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	6.438" [163.53mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	5.500" [139.70mm]

P/N	HVH-3641
A	6.438" [163.53mm]
B	5.500" [139.70mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#16 SAE [G1"-11 BSPP]
F	2.750" [69.85mm]
G	4.750" [120.65mm]
H	0.250" [6.35mm]
I	4.38" [111.1mm]
J	12.28" [312.0mm]
K	4.22" [107.3mm]
L	#16 SAE [G1"-11 BSPP]
M	1.980" [50.29mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	6.438" [163.53mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	5.500" [139.70mm]

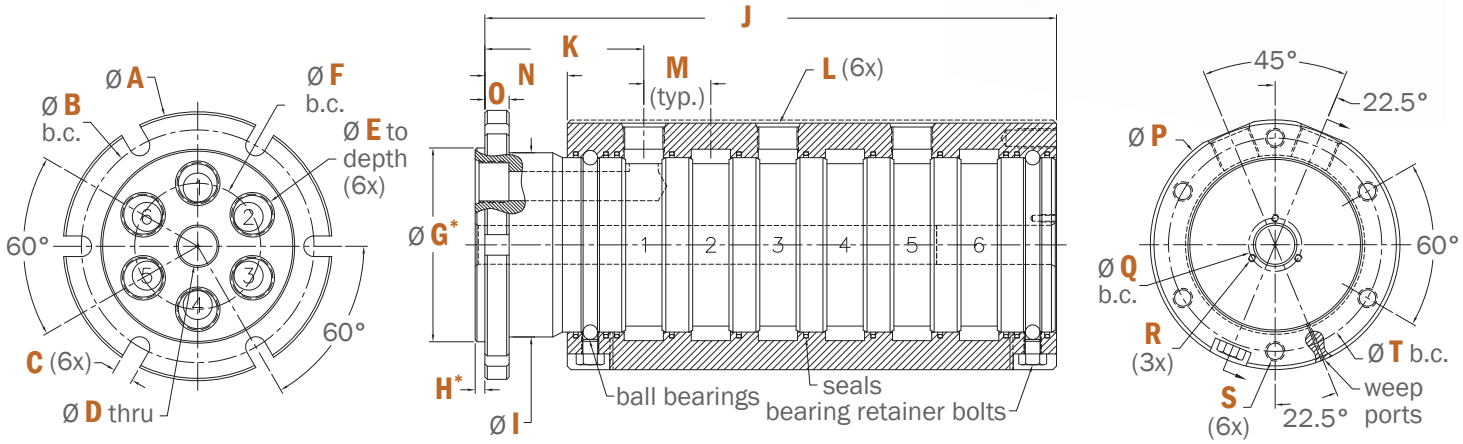
P/N	HVH-3741
A	7.438" [188.93mm]
B	6.500" [165.10mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#20 SAE [G1-1/4"-11 BSPP]
F	3.125" [79.38mm]
G	5.500" [139.70mm]
H	0.375" [9.53mm]
I	5.25" [133.4mm]
J	13.66" [347.1mm]
K	4.51" [114.4mm]
L	#20 SAE [G1-1/4"-11 BSPP]
M	2.294" [58.27mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	7.438" [188.93mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	6.500" [165.10mm]

P/N	HVH-3841
A	8.938" [227.03mm]
B	7.875" [200.03mm]
C	0.531" [13.49mm]
D	0.75" [19.1mm]
E	#24 SAE [G1-1/2"-11 BSPP]
F	3.500" [88.90mm]
G	6.500" [165.10mm]
H	0.375" [9.53mm]
I	6.25" [158.8mm]
J	14.88" [377.9mm]
K	4.68" [118.8mm]
L	#24 SAE [G1-1/2"-11 BSPP]
M	2.585" [65.66mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	8.938" [227.03mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	8.000" [203.20mm]

* Critical tolerances listed in the Customer Interface Section. See page 16

HVH SERIES

HVH 6 Flow Passage: Dimensions



P/N	HVH-3561
A	6.938" [176.23mm]
B	6.000" [152.40mm]
C	0.531" [13.49mm]
D	1.00" [25.4mm]
E	#12 SAE [G3/4"-14 BSPP]
F	3.250" [82.55mm]
G	5.000" [127.00mm]
H	0.250" [6.35mm]
I	4.75" [120.7mm]
J	14.74" [374.5mm]
K	4.10" [104.1mm]
L	#12 SAE [G3/4"-14 BSPP]
M	1.730" [43.94mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	6.438" [163.53mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	5.500" [139.70mm]

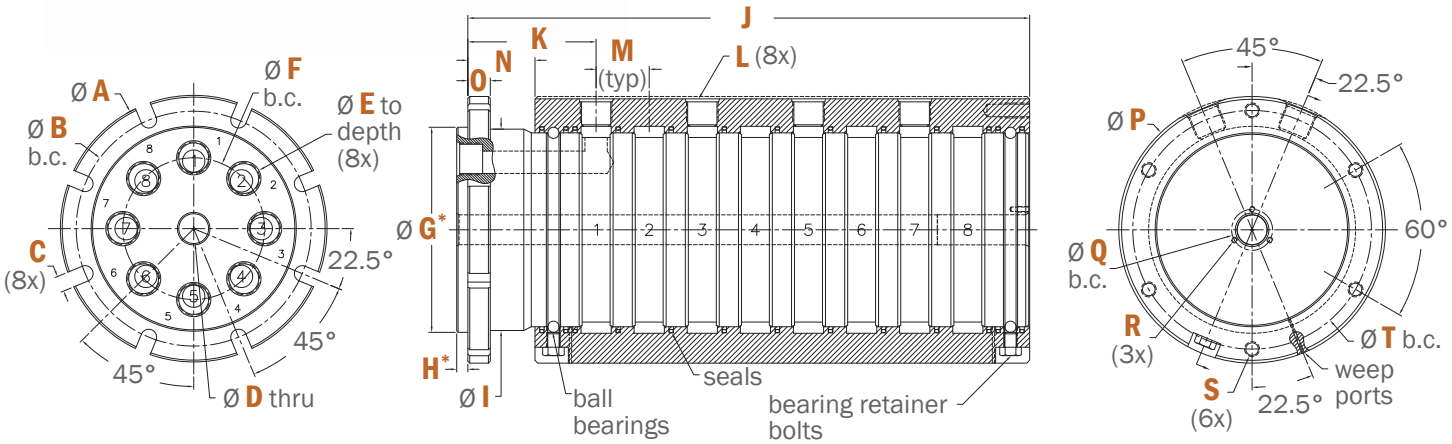
P/N	HVH-3661
A	7.438" [188.93mm]
B	6.500" [165.10mm]
C	0.531" [13.49mm]
D	1.00" [25.4mm]
E	#16 SAE [G1"-11 BSPP]
F	3.750" [95.25mm]
G	5.750" [146.05mm]
H	0.250" [6.35mm]
I	5.38" [136.5mm]
J	16.24" [412.6mm]
K	4.22" [107.3mm]
L	#16 SAE [G1"-11 BSPP]
M	1.980" [50.29mm]
N	2.13" [54.0mm]
O	0.625" [15.88mm]
P	7.438" [188.93mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	6.500" [165.10mm]

P/N	HVH-3761
A	8.938" [227.03mm]
B	7.875" [200.03mm]
C	0.531" [13.49mm]
D	1.00" [25.4mm]
E	#20 SAE [G1-1/4"-11 BSPP]
F	4.500" [114.30mm]
G	6.875" [174.63mm]
H	0.375" [9.53mm]
I	6.75" [171.5mm]
J	18.65" [473.8mm]
K	4.58" [116.3mm]
L	#20 SAE [G1-1/4"-11 BSPP]
M	2.344" [59.54mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	8.938" [227.03mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	8.000" [203.20mm]

P/N	HVH-3861
A	10.938" [277.83mm]
B	9.500" [241.30mm]
C	0.688" [17.48mm]
D	1.00" [25.4mm]
E	#24 SAE [G1-1/2"-11 BSPP]
F	5.250" [133.35mm]
G	8.000" [203.20mm]
H	0.375" [9.53mm]
I	7.75" [196.9mm]
J	20.10" [510.6mm]
K	4.70" [119.4mm]
L	#24 SAE [G1-1/2"-11 BSPP]
M	2.586" [65.68mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	10.938" [277.83mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	5/8"-11 [M16x1.5]
T	9.750" [247.65mm]

* Critical tolerances listed in the Customer Interface Section. See page 16

HVH 8 Flow Passage: Dimensions



P/N	HVH-3581
A	8.938" [227.03mm]
B	7.875" [200.03mm]
C	0.531" [13.49mm]
D	1.00" [25.4mm]
E	#12 SAE [G3/4"-14 BSPP]
F	4.750" [120.65mm]
G	6.875" [174.63mm]
H	0.375" [9.53mm]
I	6.75" [171.5mm]
J	18.83" [478.2mm]
K	4.30" [109.2mm]
L	#12 SAE [G3/4"-14 BSPP]
M	1.780" [45.21mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	8.938" [227.03mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	8.000" [203.20mm]

P/N	HVH-3681
A	8.938" [227.03mm]
B	7.875" [200.03mm]
C	0.531" [13.49mm]
D	1.00" [25.4mm]
E	#16 SAE [G1"-11 BSPP]
F	5.000" [127.00mm]
G	7.000" [177.80mm]
H	0.375" [9.53mm]
I	6.75" [171.5mm]
J	20.86" [529.8mm]
K	4.42" [112.3mm]
L	#16 SAE [G1"-11 BSPP]
M	2.030" [51.56mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	8.938" [227.03mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	1/2"-13 [M12x1.75]
T	8.000" [203.20mm]

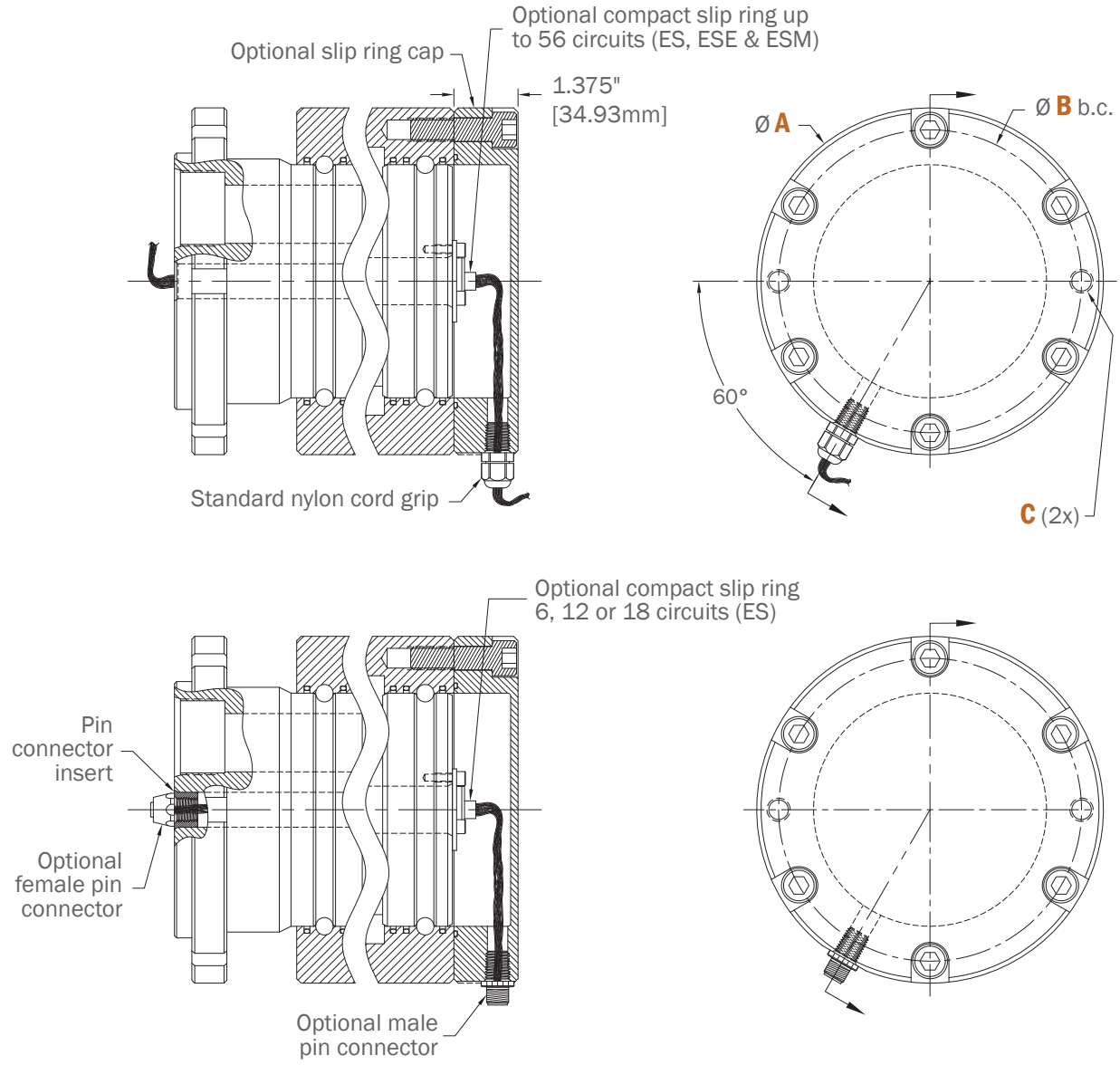
P/N	HVH-3781
A	12.375" [314.33mm]
B	10.750" [273.05mm]
C	0.688" [17.48mm]
D	1.00" [25.4mm]
E	#20 SAE [G1-1/4"-11 BSPP]
F	6.500" [165.10mm]
G	9.250" [234.95mm]
H	0.375" [9.53mm]
I	9.00" [228.6mm]
J	23.34" [529.8mm]
K	4.58" [116.3mm]
L	#20 SAE [G1-1/4"-11 BSPP]
M	2.344" [59.54mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	12.375" [314.33mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	5/8"-11 [M16x1.5]
T	11.000" [279.40mm]

P/N	HVH-3881
A	12.375" [314.33mm]
B	10.750" [273.05mm]
C	0.688" [17.48mm]
D	1.00" [25.4mm]
E	#24 SAE [G1-1/2"-11 BSPP]
F	6.500" [165.10mm]
G	9.250" [234.95mm]
H	0.375" [9.53mm]
I	9.00" [228.6mm]
J	25.28" [642.0mm]
K	4.70" [119.4mm]
L	#24 SAE [G1-1/2"-11 BSPP]
M	2.586" [65.68mm]
N	2.25" [57.2mm]
O	0.750" [19.05mm]
P	12.375" [314.33mm]
Q	1.374" [34.90mm]
R	#10-24 [M5x0.8]
S	5/8"-11 [M16x1.5]
T	11.000" [279.40mm]

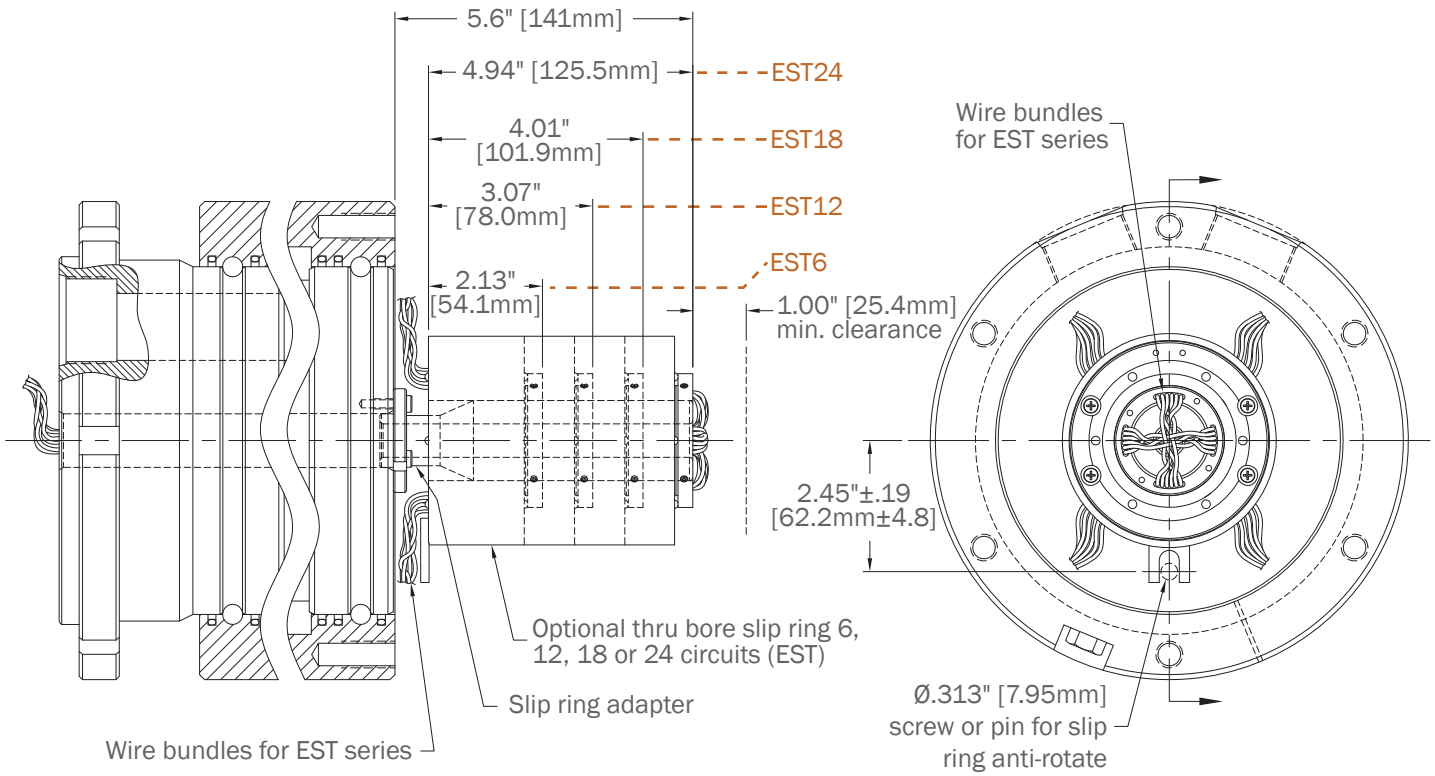
* Critical tolerances listed in the Customer Interface Section. See page 16

HVH SERIES

HVH Optional Equipment



HVH Optional Equipment

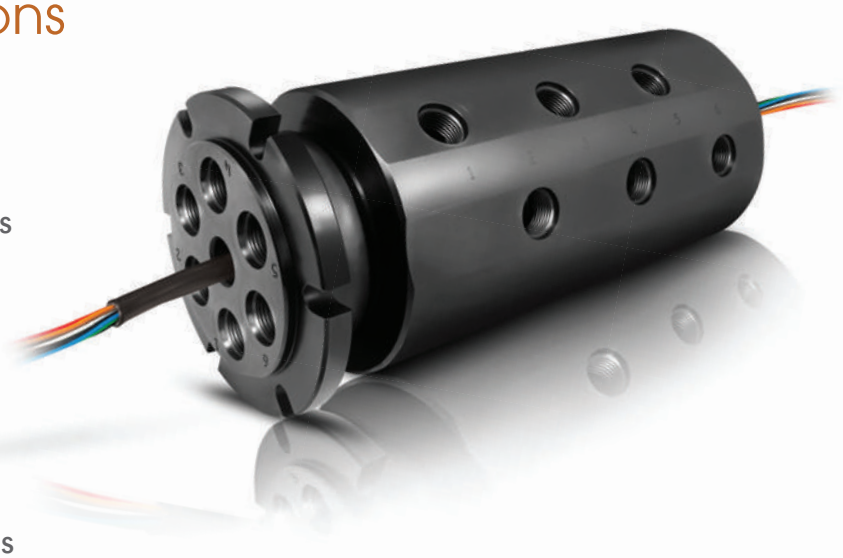


Model	A	B	C
HVH-3531	6.438" [163.53mm]	5.500" [139.70mm]	1/2"-13 [M12x1.75]
HVH-3631	6.438" [163.53mm]	5.500" [139.70mm]	1/2"-13 [M12x1.75]
HVH-3731	7.438" [188.93mm]	6.500" [165.10mm]	1/2"-13 [M12x1.75]
HVH-3831	8.938" [227.03mm]	8.000" [203.20mm]	1/2"-13 [M12x1.75]
HVH-3541	6.438" [163.53mm]	5.500" [139.70mm]	1/2"-13 [M12x1.75]
HVH-3641	6.438" [163.53mm]	5.500" [139.70mm]	1/2"-13 [M12x1.75]
HVH-3741	7.438" [188.93mm]	6.500" [165.10mm]	1/2"-13 [M12x1.75]
HVH-3841	8.938" [227.03mm]	8.000" [203.20mm]	1/2"-13 [M12x1.75]
HVH-3561	6.438" [163.53mm]	5.500" [139.70mm]	1/2"-13 [M12x1.75]
HVH-3661	7.438" [188.93mm]	6.500" [165.10mm]	1/2"-13 [M12x1.75]
HVH-3761	8.938" [227.03mm]	8.000" [203.20mm]	1/2"-13 [M12x1.75]
HVH-3861	10.938" [277.83mm]	9.750" [274.65mm]	1/2"-13 [M12x1.75]
HVH-3581	8.938" [227.03mm]	8.000" [203.20mm]	1/2"-13 [M12x1.75]
HVH-3681	8.938" [227.03mm]	8.000" [203.20mm]	1/2"-13 [M12x1.75]
HVH-3781	12.375" [314.33mm]	11.000" [279.40mm]	5/8"-11 [M16x1.5]
HVH-3881	12.375" [314.33mm]	11.000" [279.40mm]	5/8"-11 [M16x1.5]

HVH 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



PART #	# OF CIRCUITS	MAX AMPS/ CIRCUIT	MAX VOLTS/ CIRCUIT
ES6	6	2	210
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
EST6	6	10	600
EST12	12	10	600
EST18	18	10	600
EST24	24	10	600
ESET4 [2]	4	Ethernet Only	600
ESET8 [3]	8	Ethernet Only	600
ESET68 [3]	14	(6x) 10A	600
ESET128 [3]	20	(12x) 10A	600
ESET184 [2]	22	(18x) 10A	600

[1] All slip ring lead wire lengths are 48" (1219mm), except EST / ESET slip rings are 36" (914mm)
[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, 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:

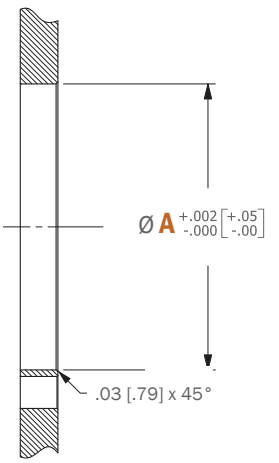
DSTI Warrants, for a period of 2 years from the date of original delivery, its products to be free from defects in material and workmanship. DSTI's obligation under this warranty is limited to repair or replacement at it's factory of any part or parts of said products which shall be returned to DSTI 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.

HVH SERIES

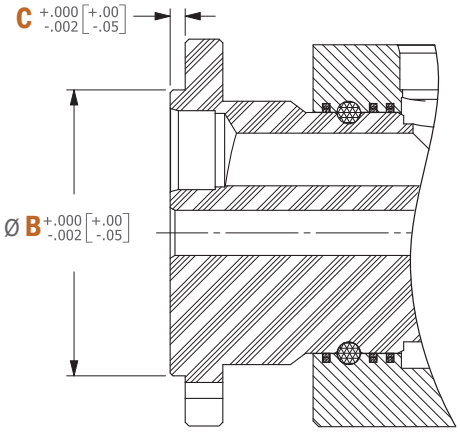
Customer Interface

(All models)

Customer Interface Example



HVH Union



Customer Interface Example

Model	A	B	C
HVH-3531	4.502" [114.35mm]	4.500" [114.30mm]	.250" [6.35mm]
HVH-3631	4.752" [120.70mm]	4.750" [120.65mm]	.250" [6.35mm]
HVH-3731	5.502" [139.70mm]	5.500" [139.70mm]	.375" [9.53mm]
HVH-3831	6.502" [165.15mm]	6.500" [165.10mm]	.375" [9.53mm]
HVH-3541	4.502" [114.35mm]	4.500" [114.30mm]	.250" [6.35mm]
HVH-3641	4.752" [120.70mm]	4.750" [120.65mm]	.250" [6.35mm]
HVH-3741	5.502" [139.70mm]	5.500" [139.70mm]	.375" [9.53mm]
HVH-3841	6.502" [165.15mm]	6.500" [165.10mm]	.375" [9.53mm]
HVH-3561	5.002" [127.70mm]	5.000" [127.00mm]	.250" [6.35mm]
HVH-3661	5.752" [146.10mm]	5.750" [146.05mm]	.250" [6.35mm]
HVH-3761	6.877" [174.68mm]	6.875" [174.63mm]	.375" [9.53mm]
HVH-3861	8.002" [203.25mm]	8.000" [203.20mm]	.375" [9.53mm]
HVH-3581	6.877" [174.68mm]	6.875" [174.63mm]	.375" [9.53mm]
HVH-3681	7.002" [177.85mm]	7.000" [177.80mm]	.375" [9.53mm]
HVH-3781	9.252" [235.00mm]	9.250" [234.95mm]	.375" [9.53mm]
HVH-3881	9.252" [235.00mm]	9.250" [234.95mm]	.375" [9.53mm]

Notes

HVH SERIES

Notes

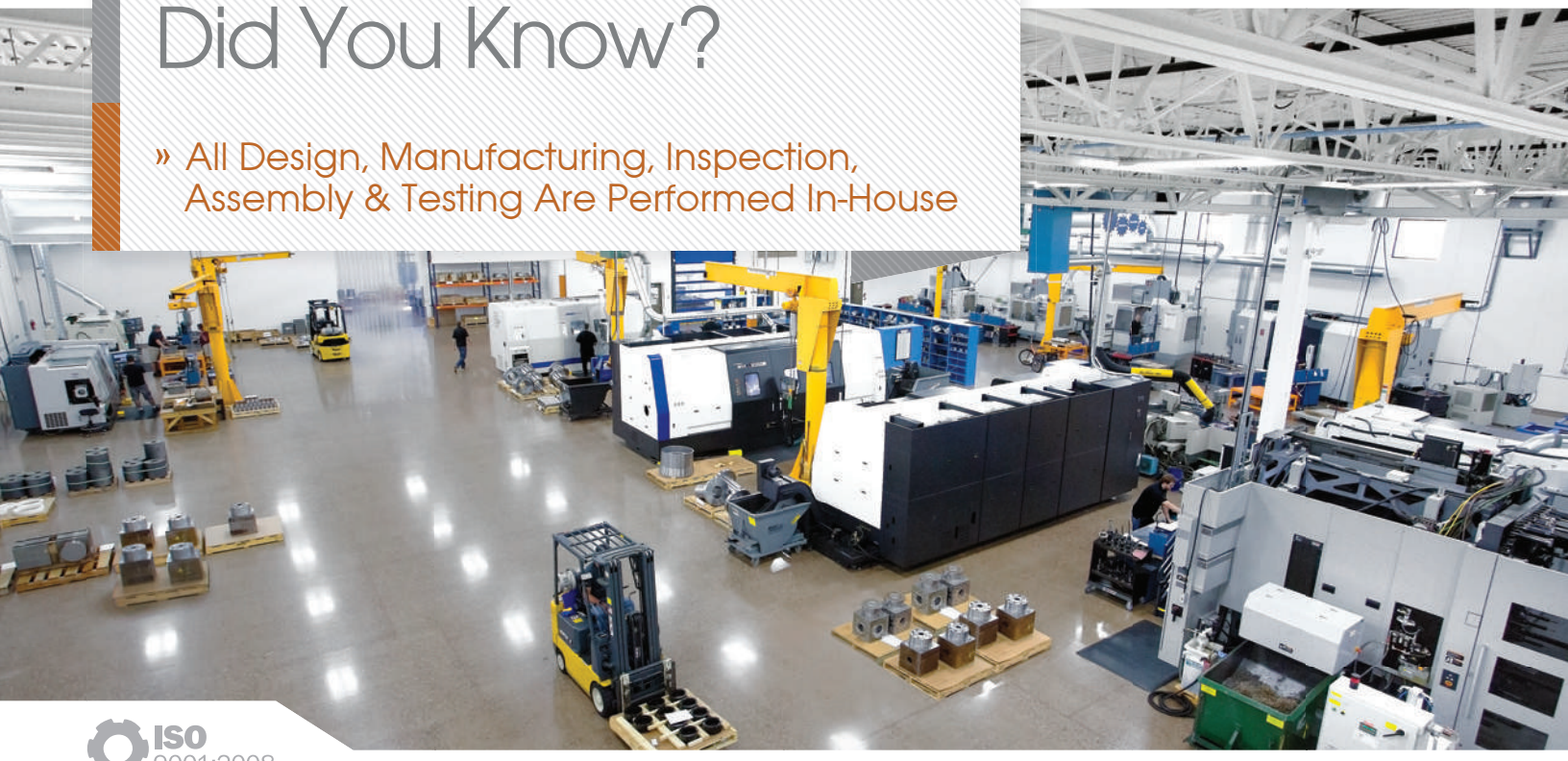
Proven Expertise. Trusted Solutions.

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



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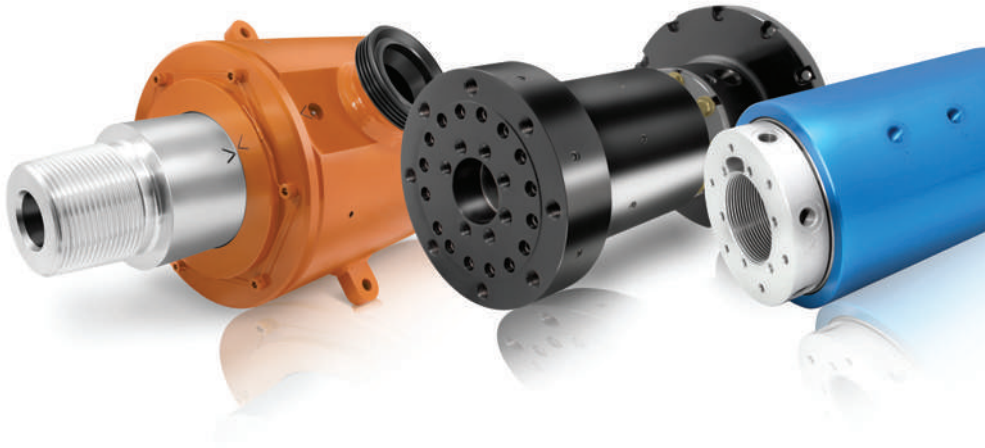
To see examples of our specialized solutions, please visit:

www.dsti.com/industries



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