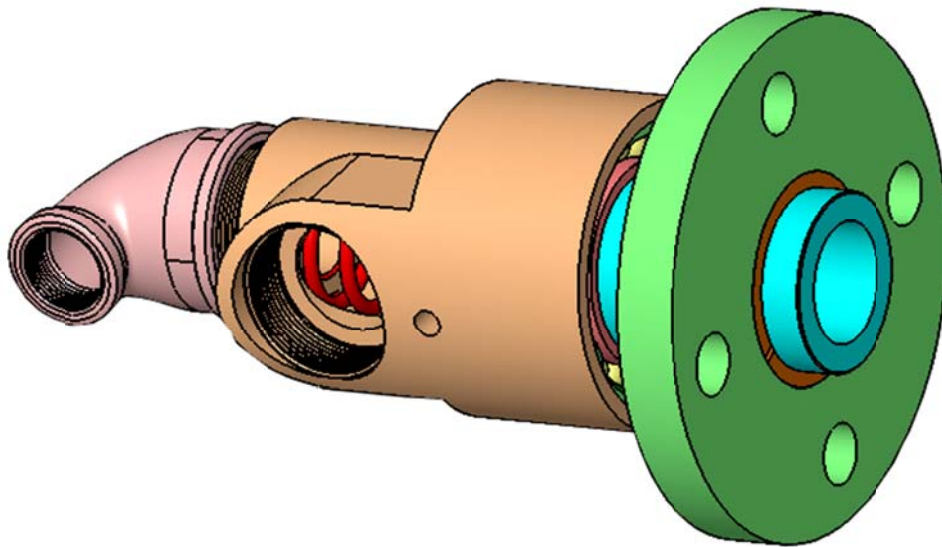


Tengzhou Freed Rotary Joint Ltd.

## H Rotary Joint

The drawings of type H rotary joint



Three-dimensional Drawing of HSGF40-20 Rotary Joint

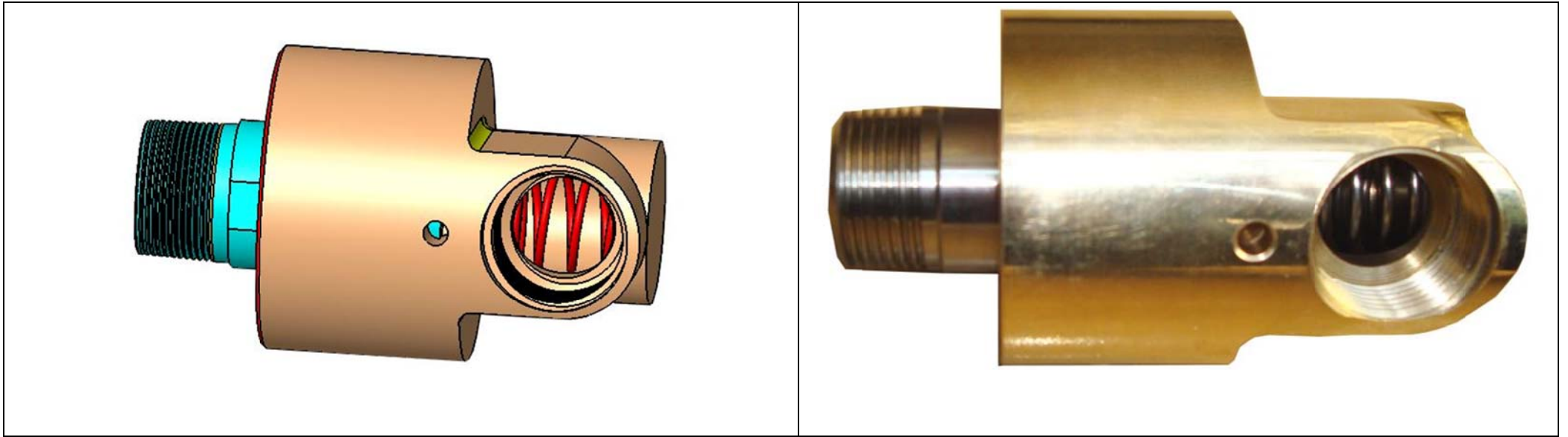


Practicality of HSGF40-20 Rotary Joint

The drawings of type H rotary joint

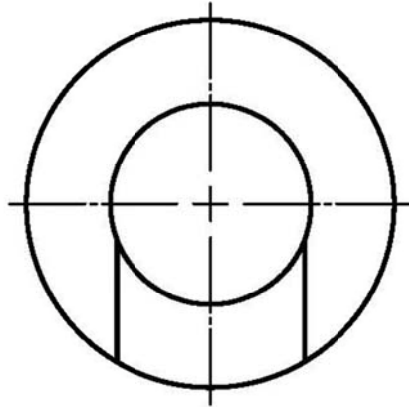
# HD Rotary Joint

Type HD Single flow, rotary joint with threaded nipple

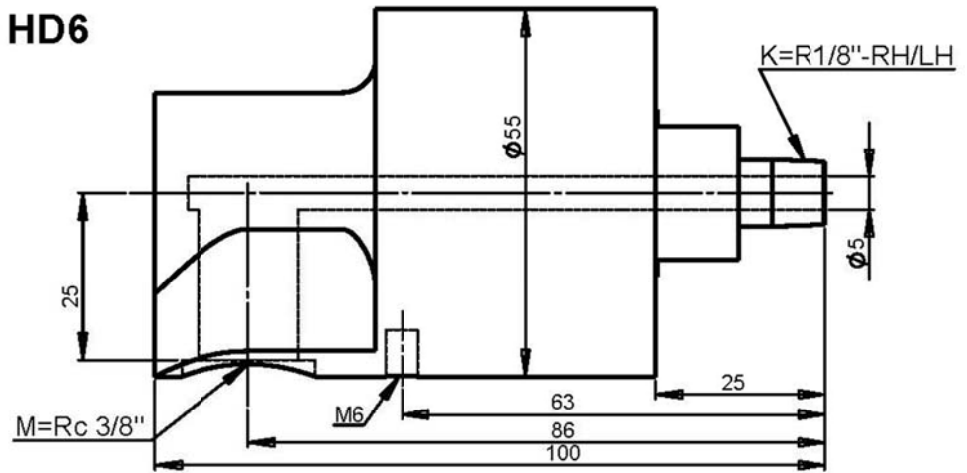


Type HD Single flow, rotary joint with threaded nipple

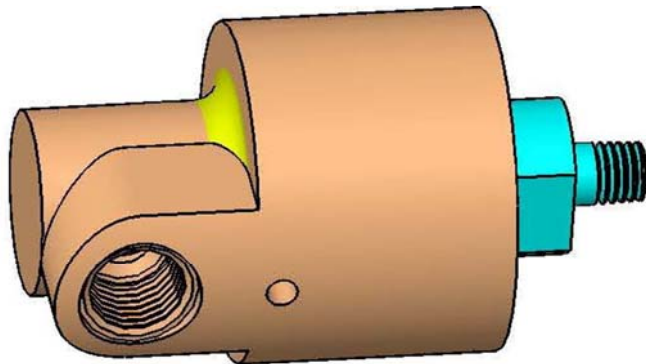
# The drawing of HD6 Rotary Joint



## Rotary Joint: HD6



Surface Contour for Single Flow Type HD6 Rotary Joint .



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, Air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.  
UNLESS SPECIFIED, THE TOLERANCE IS IT12.

MATERIAL NO.:

REMARKS: .

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>10-18mm	±0.09	>18-30mm	±0.11
>6-10mm	±0.08	>30-50mm	±0.13		
>10-18mm	±0.09				
>18-30mm	±0.11				
>30-50mm	±0.13				

CHINA MATERIAL: .

USA MATERIAL: .

DRAWN BY: Steven DRNO.: FDRNO200807-06

CHECKED BY: Frank DNNNO.: FEDN200807-06

TREATMENT: . DATE: 2011-10-18

REF. DWG NO.: SW : 800015990

SYMBLE NUMBER: HD010991R

ITEM NUMBER: 801006991401

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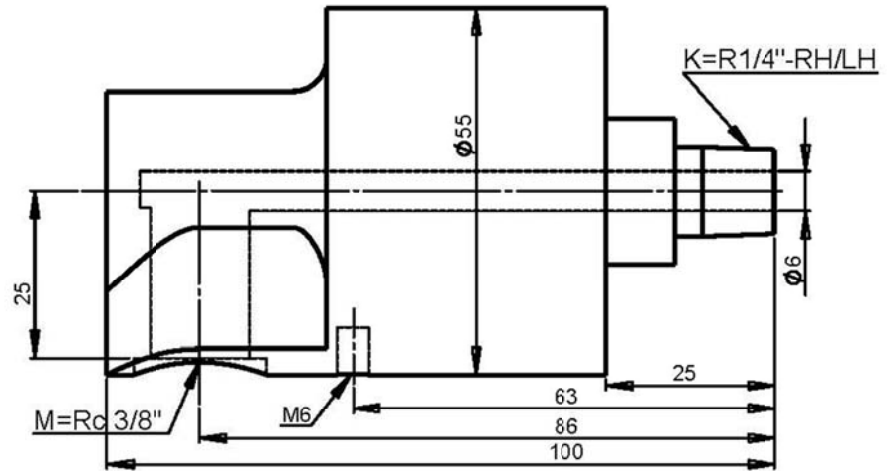
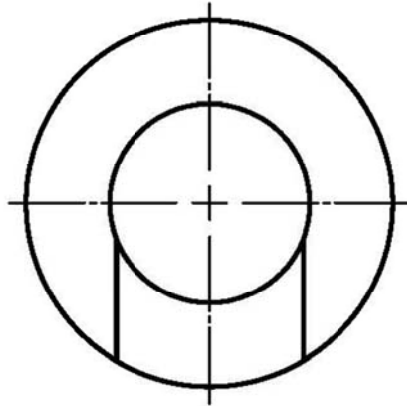
PROJECT VIEW: NAME: HD6 ROTARY JOINT  
ASSEMBLY DRAWING  
CFG: JOINT HD

SCALE: 1:1 PAGE 1 OF 1 DWG NO.: 801006991401

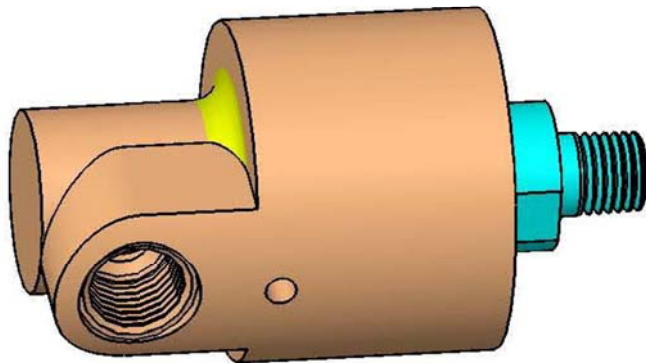
REV. A

# The drawing of HD8 Rotary Joint

## Rotary Joint: HD8



Surface Contour for Single Flow Type HD8 Rotary Joint .



## H Rotary Joint

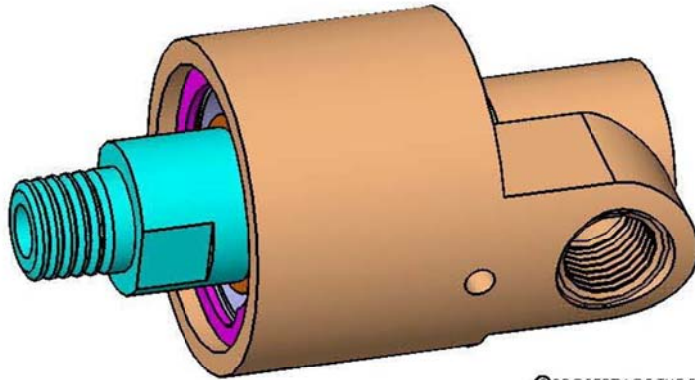
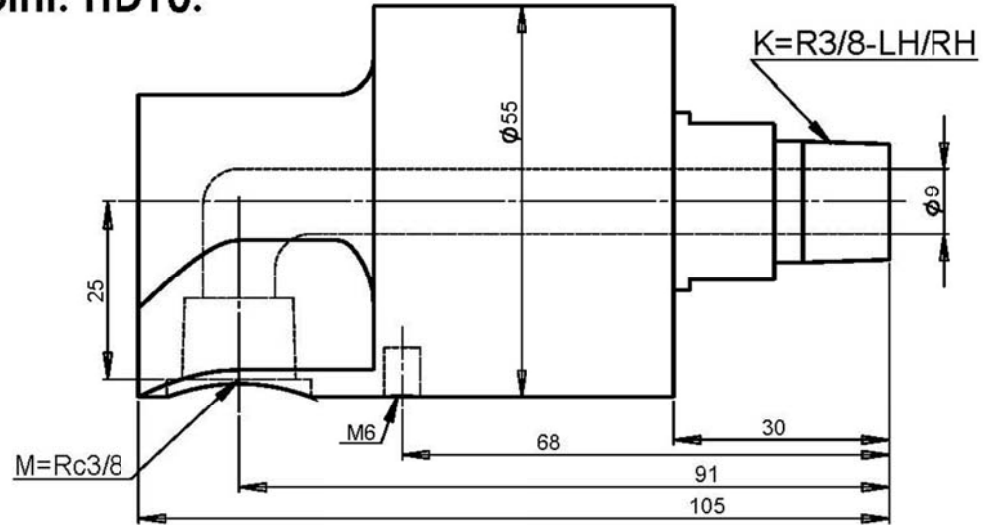
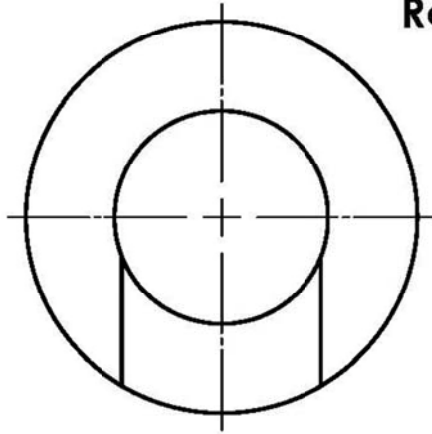
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, Oil, Air.

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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.				MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.				CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
				USA MATERIAL: .			
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven DRNO.: FDRNO200807-06	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank DNNNO.: FEDN200807-06	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	TREATMENT: . DATE: 2011-10-18	
>50-80	±0.15	>80-120	±0.18	>120-180	±0.20	REF. DWG NO.: SW : 800015990	
>180-250	±0.23	>250-315	±0.26	>315-400	±0.28	SYMBLE NUMBER: HD008991R	
>400-500	±0.32	>500-630	±0.35	>630-800	±0.40	ITEM NUMBER: 801008991401	
>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63	PROJECT VIEW NAME: HD8 ROTARY JOINT	
						ASSEMBLY DRAWING	
						CFG: JOINT HD	
						SCALE 1:1	PAGE 1 OF 1
						REF. DWG NO.: 801008991401	REV. A

# The drawing of HD10 Rotary Joint

## Rotary Joint: HD10.



### H ROTARY JOINT

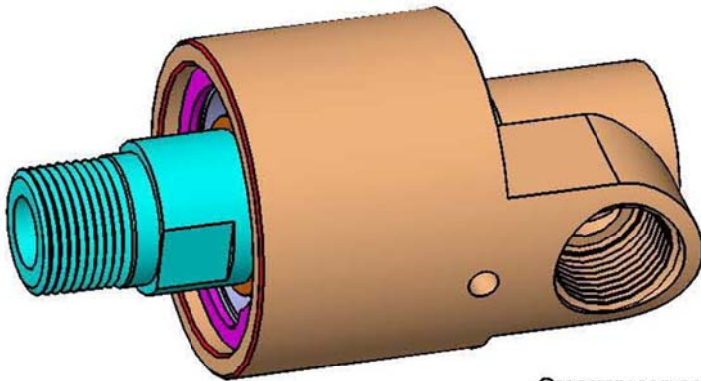
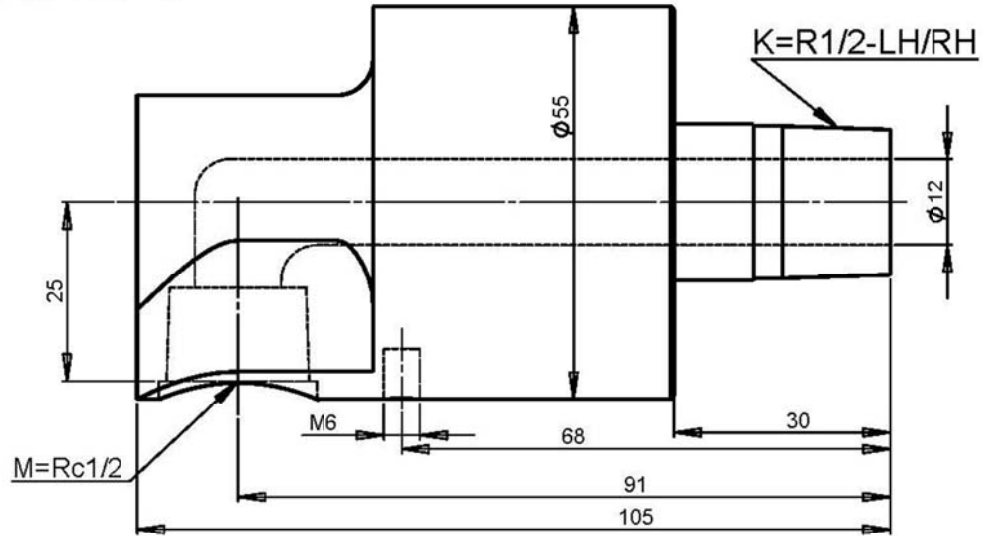
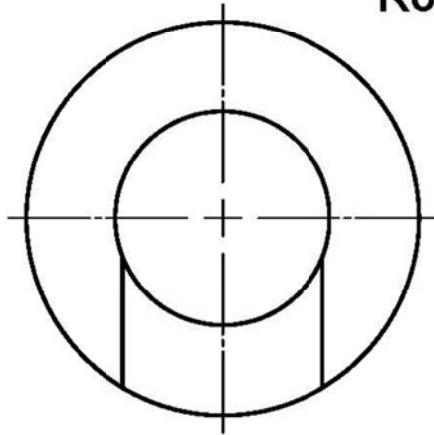
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.					MATERIAL NO.:		REMARKS: .		
UNLESS SPECIFIED, THE TOLERANCE IS IT12.					CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com		
					USA MATERIAL: .				
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven	DRNO.: FDRNO200807-06	PROJECT VIEW	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank	DNNNO.: FEDN200807-06		
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	TREATMENT: .	DATE: 2008-9-3		
>50-80	±0.15	>80-120	±0.18	>120-180	±0.20	REF. DWG NO.: SW : 801010991			
>180-250	±0.23	>250-315	±0.26	>315-400	±0.28	SYMBLE NUMBER: HD010991R		NAME: HD10 ROTARY JOINT	
>400-500	±0.32	>500-630	±0.35	>630-800	±0.40	ITEM NUMBER: 801010991401		ASSEMBLY DRAWING	
>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63			CFG:JOINT HD10	
							SCALE 1:1	A3	PAGE 1 OF 1
									DWG NO.: 801010991401
									REV. A

# The drawing of HD15 Rotary Joint

## Rotary Joint: HD15



### H ROTARY JOINT

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

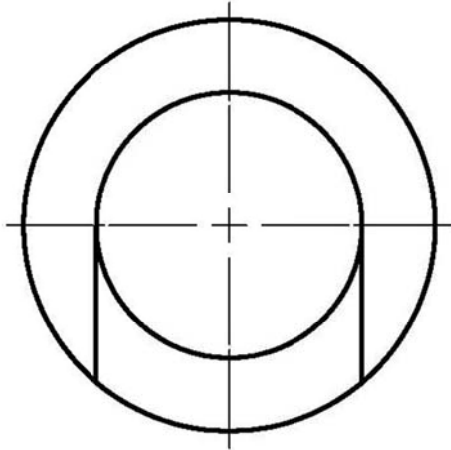
UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>3-6mm	±0.15	>6-10mm	±0.20	>10-18mm	±0.23
>6-10mm	±0.15	>10-18mm	±0.20	>18-30mm	±0.26
>10-18mm	±0.18	>18-30mm	±0.23	>30-50mm	±0.28
>18-30mm	±0.18	>30-50mm	±0.23		
>30-50mm	±0.32				
>50-630	±0.35	>630-800	±0.40	>800-1000	±0.45
>630-800	±0.40	>800-1000	±0.45	>1000-1250	±0.53
>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63
>1000-1250	±0.45	>1250-1600	±0.53		
>1250-1600	±0.53				

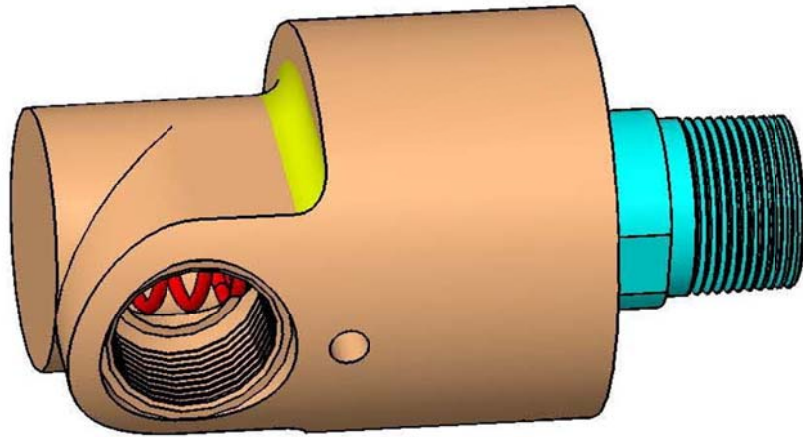
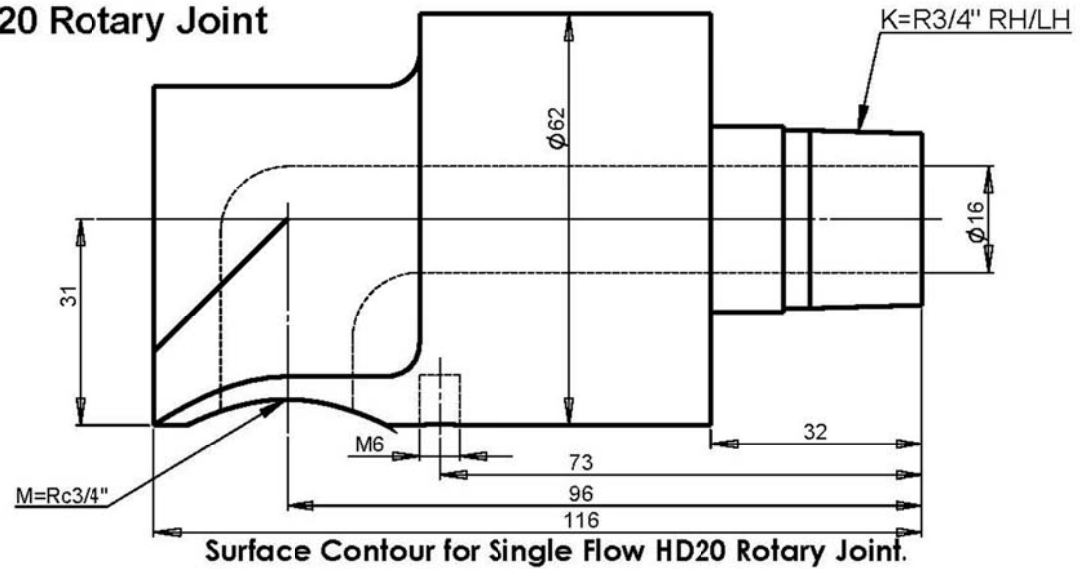
MATERIAL NO.:	REMARKS:
CHINA MATERIAL:	
USA MATERIAL:	
DRAWN BY: Steven	DRNO.: FDRN0200807-06
CHECKED BY: Frank	DNNO.: FEDN200807-06
TREATMENT:	DATE: 2008-9-3
REF. DWG NO.: SW : 801010991	
SYMBLE NUMBER: HD010991R	
ITEM NUMBER: 801010991401	

<b>THE FREED CORPORATION</b> www.freedseal.com			
PROJECT VIEW	NAME: HD10T ROTARY JOINT	ASSEMBLY DRAWING	
ASSEMBLY DRAWING	CFG: JOINT HD20	SCALE	1:1
SCALE	1:1	PAGE	1
OF	1	DWG NO.:	801010991401
REV.	A		

# The drawing of HD20 Rotary Joint



## HD20 Rotary Joint



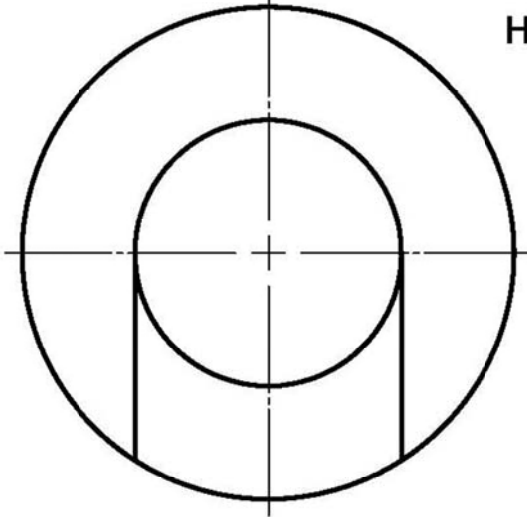
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

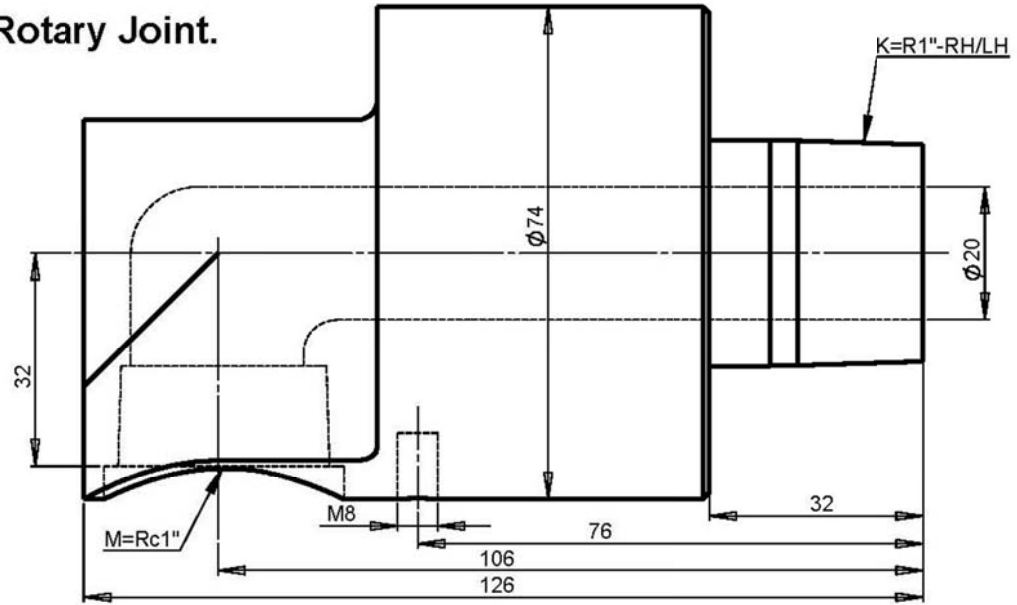
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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS H12.						CHINA MATERIAL:		THE FREED CORPORATION	
						USA MATERIAL:		www.freedseal.com	
DIM	H12	DIM	H12	DIM	H12	DRAWN BY: Steven	DRNO.: FDRN0200812-03	PROJECT VIEW	
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32	CHECKED BY: Frank	DNNO.: FEDN200812-03	NAME: HD20 ROTARY JOINT	
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	TREATMENT:	DATE: 2008-12-18	ASSEMBLY DRAWING	
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40	REF. DWG NO.: SW : 801020991	CFG: JOINT HD		
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	SYMBLE NUMBER: HD020991R	SCALE	PAGE 1	DWG NO.:
>18-30mm	±0.11	>250-315	±0.26	>800-1250	±0.53	ITEMA NUMBER: 801020991001	1:1	OF 1	801020991001
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63		A3		REV. A

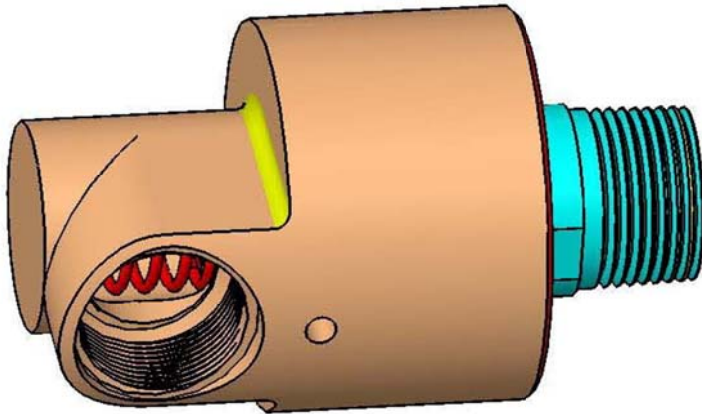
# The drawing of HD25 Rotary Joint



HD25 Rotary Joint.



Surface Contour for Single Flow HD25 Rotary Joint.



## H Rotary Joint

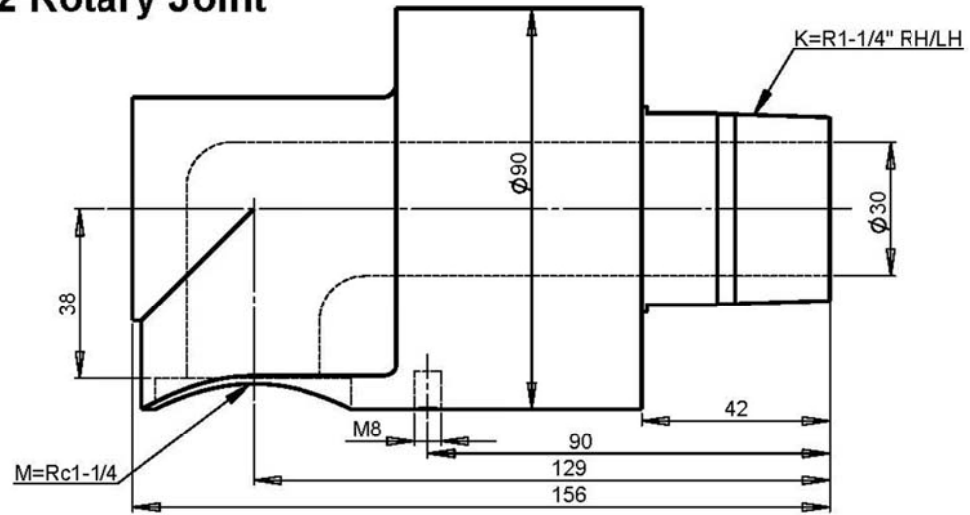
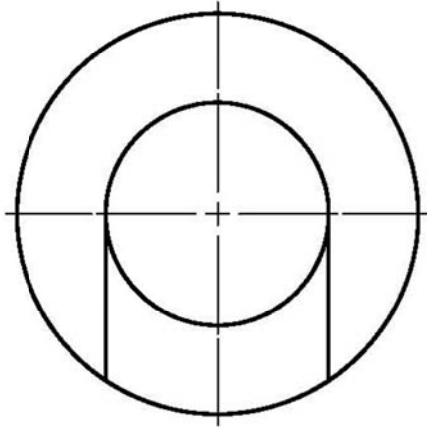
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

©PROPERTY OF THE FREED CORPORATION. THE DRAWING AND ITS INFORMATION ARE CONFIDENTIAL AND MUST BE RETURNED IF REQUESTED BY THE FREED CORPORATION.

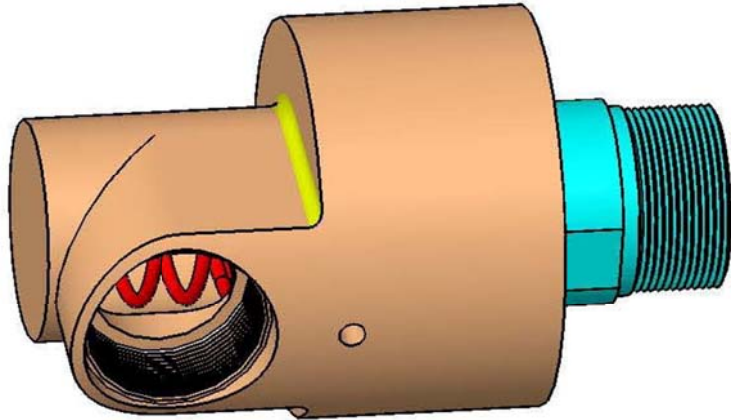
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
USA MATERIAL: .						DRAWN BY: Steven			
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNNO.: FEDN200807-05	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	TREATMENT: .		DATE: 2008-7-5	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	REF. DWG NO.: SW : 801025991001		PROJECT VIEW	
>50-80	±0.15	>80-120	±0.18	>120-180	±0.20	SYMBLE NUMBER: HD025991R		NAME: HD25 ROTARY JOINT	
>180-250	±0.23	>250-315	±0.26	>315-400	±0.28	ITEM NUMBER: 801025991401		ASSEMBLY DRAWING	
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>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63	PAGE 1 OF 1		DWG NO.: 801025991401	
						REV. A			

# The drawing of HD32 Rotary Joint

## HD32 Rotary Joint



Surface Contour for Single Flow HD32 Rotary Joint.



## H Rotary Joint

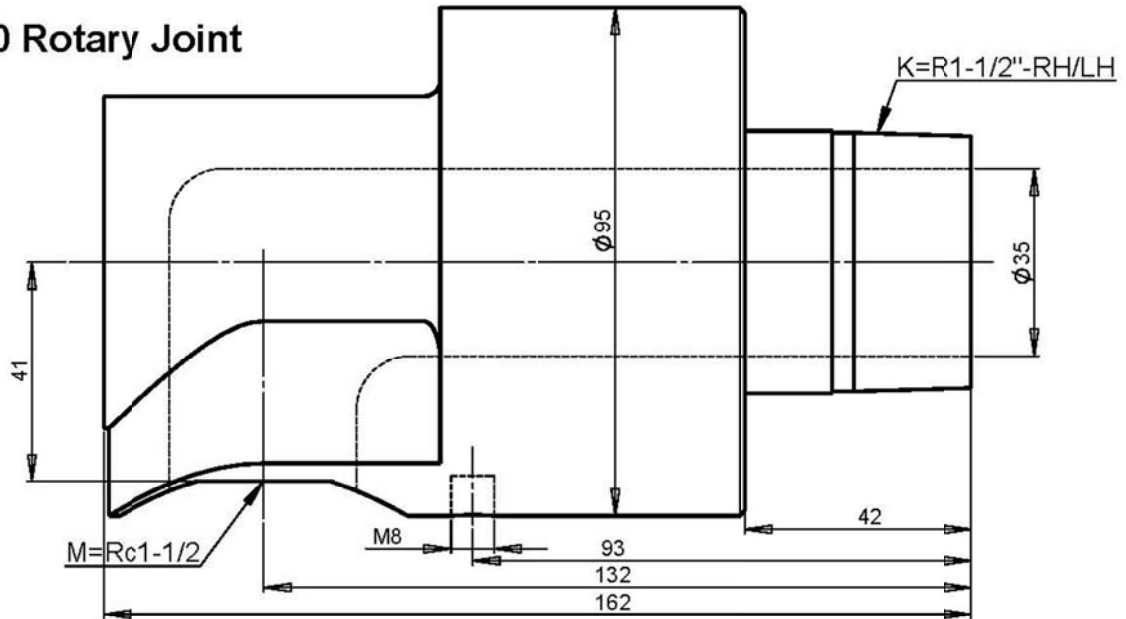
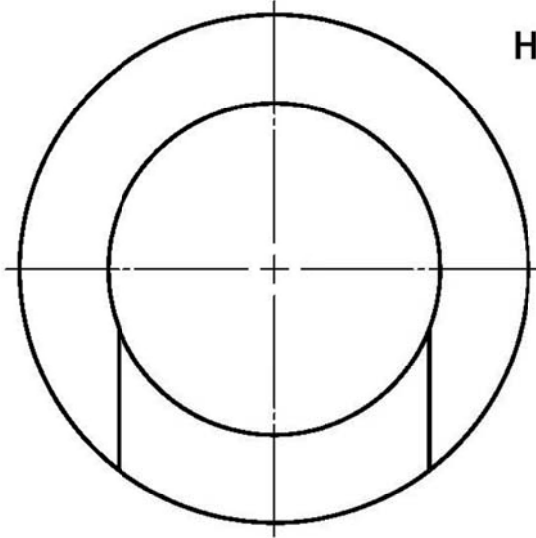
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, OIL, air.

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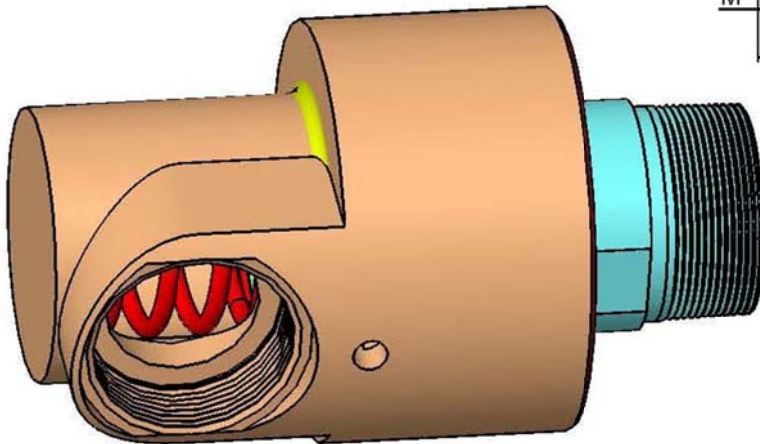
REMOVE BURRS AND EDGES, UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:		THE FREED CORPORATION	
						USA MATERIAL:		www.freedseal.com	
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven		DRNO.: FDRNO200811-03	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank		DNNNO.: FEDN200811-03	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	TREATMENT:		DATE: 2008-11-11	
>50-80	±0.15	>80-120	±0.18	>120-180	±0.20	REF. DWG NO.: SW : 801032991		PROJECT VIEW	
>180-250	±0.23	>250-315	±0.26	>315-400	±0.28	SYMBLE NUMBER: HD032991R		NAME: HD32 ROTARY JOINT	
>400-500	±0.32	>500-630	±0.35	>630-800	±0.40	ITEM NUMBER: 801032991001		ASSEMBLY DRAWING	
>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63			CFG: JOINT HD	
								SCALE 1:1	
								PAGE 1 OF 1	
								DWG NO.: 801032991001	
								REV. A	

# The drawing of HD40 Rotary Joint

## HD40 Rotary Joint



Surface Contour for Single Flow HD40 Rotary Joint.



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, Oil, Air

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

MATERIAL NO.:

REMARKS: .

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

CHINA MATERIAL: .

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www.freedseal.com

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>3-6mm	±0.15	>6-10mm	±0.18	>10-18mm	±0.20
>6-10mm	±0.15	>10-18mm	±0.18	>18-30mm	±0.20
>10-18mm	±0.15	>18-30mm	±0.18	>30-50mm	±0.20
>18-30mm	±0.15	>30-50mm	±0.18	>50-100mm	±0.20
>30-50mm	±0.15	>50-100mm	±0.18	>100-150mm	±0.20
>50-100mm	±0.15	>100-150mm	±0.18	>150-200mm	±0.20
>100-150mm	±0.15	>150-200mm	±0.18	>200-300mm	±0.20
>150-200mm	±0.15	>200-300mm	±0.18	>300-400mm	±0.20
>200-300mm	±0.15	>300-400mm	±0.18	>400-500mm	±0.20
>300-400mm	±0.15	>400-500mm	±0.18	>500-630mm	±0.20
>400-500mm	±0.15	>500-630mm	±0.18	>630-800mm	±0.20
>500-630mm	±0.15	>630-800mm	±0.18	>800-1000mm	±0.20
>630-800mm	±0.15	>800-1000mm	±0.18	>1000-1250mm	±0.20
>800-1000mm	±0.15	>1000-1250mm	±0.18	>1250-1600mm	±0.20
>1000-1250mm	±0.15	>1250-1600mm	±0.18		

USA MATERIAL: .

DRAWN BY: Steven DRNO: FDRNO200811-02

CHECKED BY: Frank DNNO: FEDN200811-02

TREATMENT: . DATE: 2008-12-20

REF. DWG NO.: SW : 801040992

SYMBLE NUMBER: HD040991R

ITEM NUMBER: 801040991400

PROJECT VIEW

ASSEMBLY DRAWING

CFG: JOINT HD

SCALE 1:1

A3

NAME: HD40 ROTARY JOINT

ASSEMBLY DRAWING

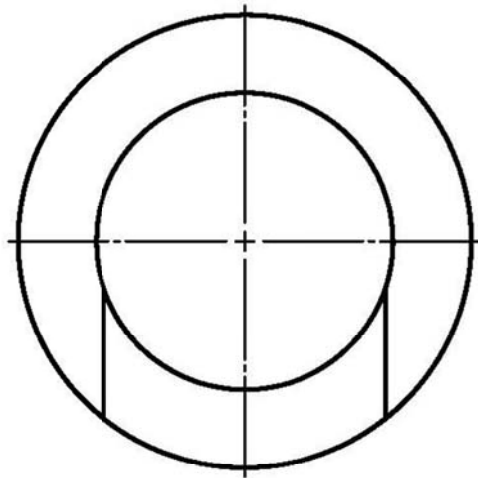
CFG: JOINT HD

PAGE 1 OF 1

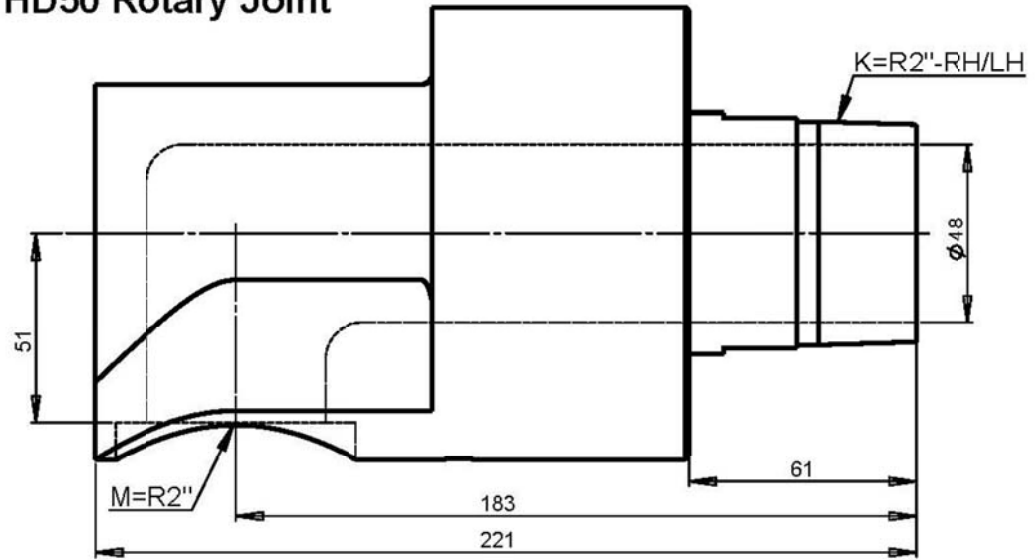
DWG NO.: 801040991400

REV. A

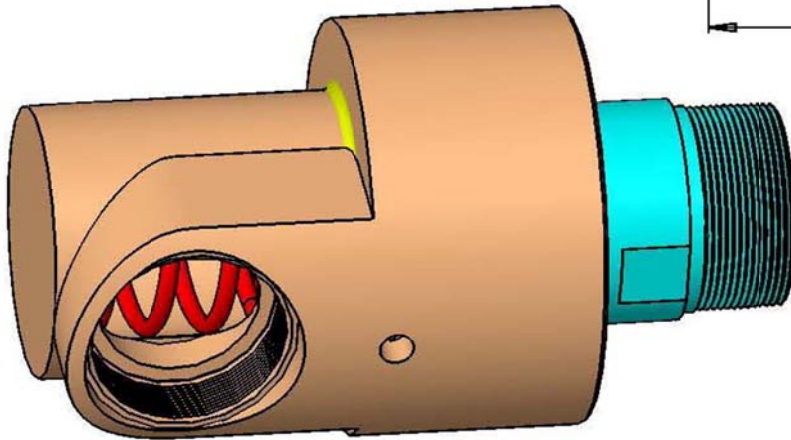
# The drawing of HD50 Rotary Joint



## HD50 Rotary Joint



Surface Contour for Single Flow HD50 Rotary Joint.



## H Rotary Joint

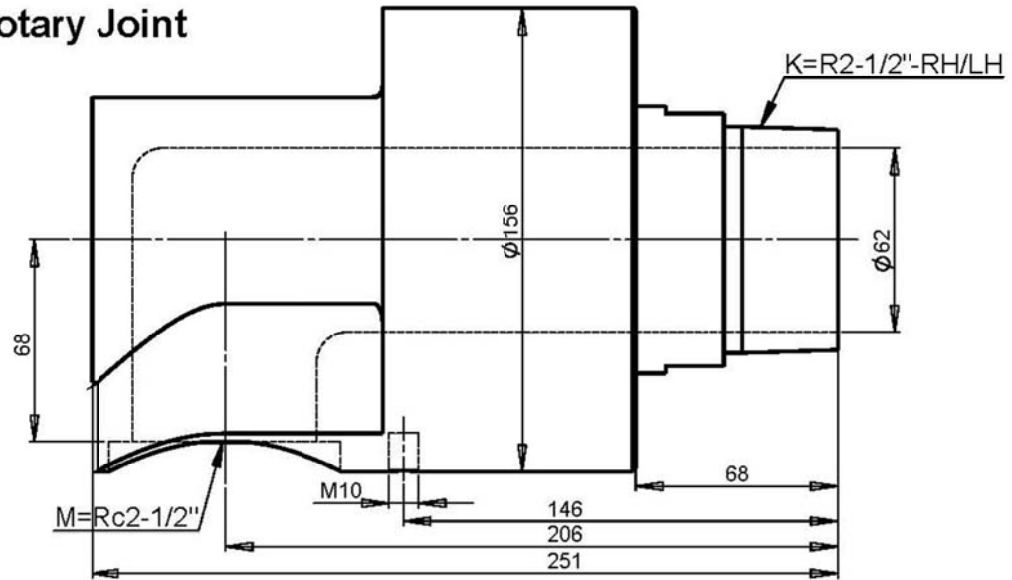
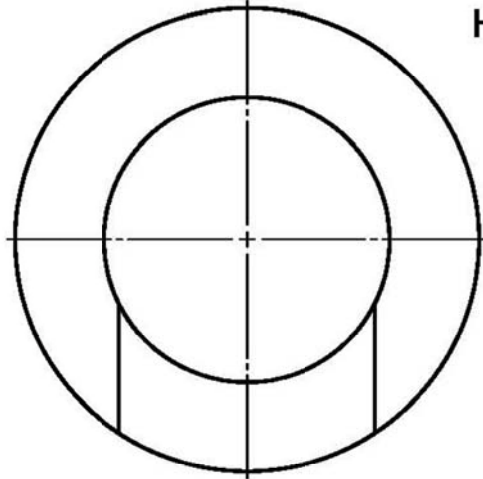
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, Oil, Air

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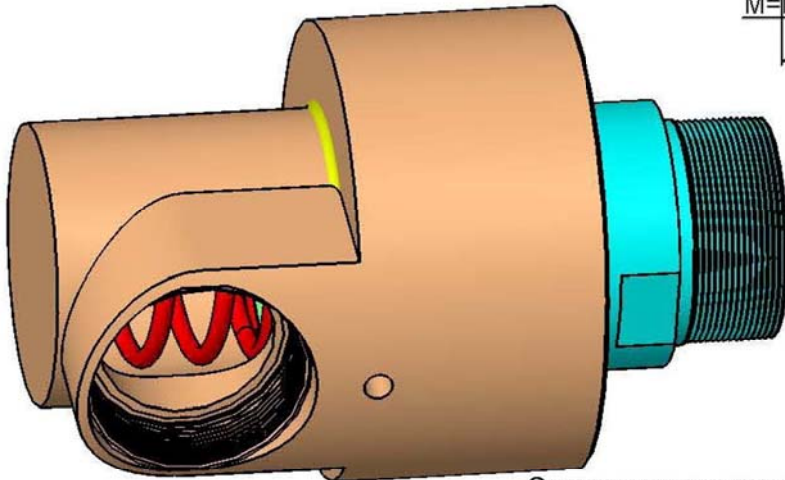
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.				MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.				CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
				USA MATERIAL:			
D/M	IT12	D/M	IT12	D/M	IT12	DRAWN BY: Steven DRNO.: FDRNO200804-02	
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32	CHECKED BY: Frank DNNO.: FEDN200804-02	
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	TREATMENT: . DATE: 2008-12-20	
>6-10mm	±0.08	>120-180	±0.20	>E30-800	±0.40	REF. DWG NO.: SW : 801050991	
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	SYMBLE NUMBER: HD050991R	
>18-30mm	±0.11	>250-315	±0.26	>800-1250	±0.53	ITEM NUMBER: 801050991001	
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63		
PROJECT VIEW						NAME: HD50 ROTARY JOINT	
ASSEMBLY DRAWING						CFG: JOINTHD	
SCALE 1:1						PAGE 1 OF 1	
						DWG NO.: 801050991001	
						REV. A	

# The drawing of HD65 Rotary Joint

## HD65 Rotary Joint



Surface Contour for Single Flow HD65 Rotary Joint.



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, Air

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.05	>6-10mm	±0.06	>10-18mm	±0.09
>6-10mm	±0.06	>10-18mm	±0.08	>18-30mm	±0.11
>10-18mm	±0.08	>18-30mm	±0.11	>30-50mm	±0.13
>30-50mm	±0.13	>50-80mm	±0.15	>80-120mm	±0.18
>50-80mm	±0.15	>80-120mm	±0.18	>120-180mm	±0.20
>80-120mm	±0.18	>120-180mm	±0.20	>180-250mm	±0.23
>120-180mm	±0.20	>180-250mm	±0.23	>250-315mm	±0.26
>180-250mm	±0.23	>250-315mm	±0.26	>315-400mm	±0.28
>250-315mm	±0.26	>315-400mm	±0.28	>400-500mm	±0.32
>315-400mm	±0.28	>400-500mm	±0.32	>500-630mm	±0.35
>400-500mm	±0.32	>500-630mm	±0.35	>630-800mm	±0.40
>500-630mm	±0.35	>630-800mm	±0.40	>800-1000mm	±0.45
>630-800mm	±0.40	>800-1000mm	±0.45	>1000-1250mm	±0.53
>800-1000mm	±0.45	>1000-1250mm	±0.53	>1250-1600mm	±0.63
>1000-1250mm	±0.53	>1250-1600mm	±0.63		

MATERIAL NO.:

CHINA MATERIAL:

USA MATERIAL:

DRAWN BY: Steven DRNO.: FDRNO200812-04

CHECKED BY: Frank DNNO.: FEDN200812-04

TREATMENT: DATE: 2008-12-20

REF. DWG NO.: SW : 801065991

SYMBLE NUMBER: HD065991R

ITEM NUMBER: 801065991001

REMARKS:

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PROJECT VIEW

ASSEMBLY DRAWING

CFG: JOINT HD

SCALE 1:1

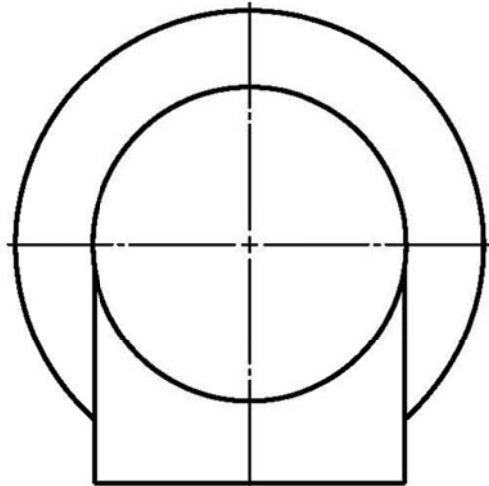
PAGE 1 OF 1

NAME: HD65 ROTARY JOINT

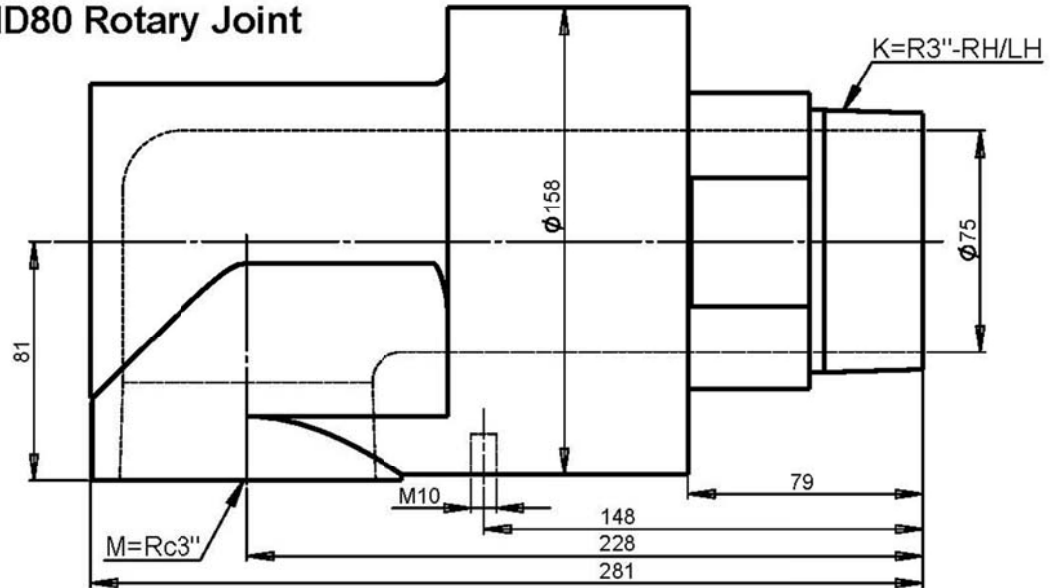
DWG NO.: 801065991001

REV. A

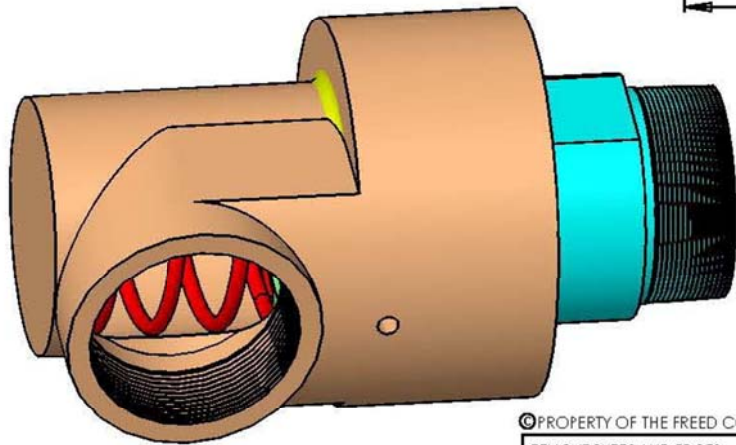
# The drawing of HD80 Rotary Joint



## HD80 Rotary Joint



Surface Contour for Single Flow HD80 Rotary Joint.



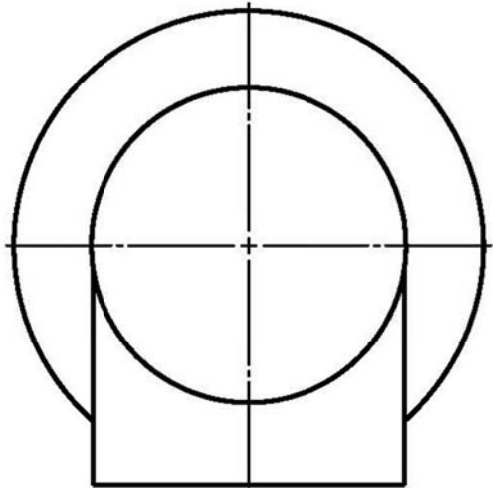
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, Air, oil.

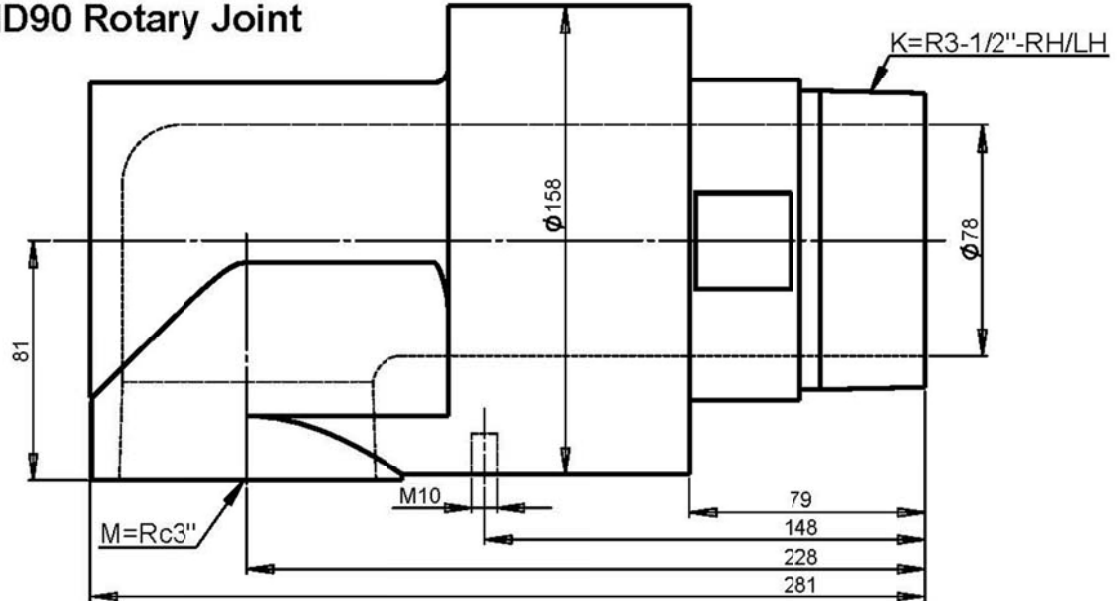
©PROPERTY OF THE FREED CORPORATION. THE DRAWING AND ITS INFORMATION ARE CONFIDENTIAL AND MUST BE RETURNED IF REQUESTED BY THE FREED CORPORATION.

REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5. UNLESS SPECIFIED, THE TOLERANCE IS IT12.						MATERIAL NO.:		REMARKS:	
CHINA MATERIAL:						USA MATERIAL:		<b>THE FREED CORPORATION</b> www.freedseal.com	
DRAWN BY: Steven						DRNO.: FDRNO201204-02			
CHECKED BY: Frank						DNNNO.: FEDN201204-02		PROJECT VIEW	
TREATMENT:						DATE: 2012-4-17		NAME: HD80 ROTARY JOINT	
REF. DWG NO.: SW : 803080992						SYMBLE NUMBER: HD080991R		ASSEMBLY DRAWING	
ITEM NUMBER: 801080991401						SCALE 1:1		CFG: JOINT HD	
						PAGE 1 OF 1		DWG NO.: 801080991401	
						REV. A			

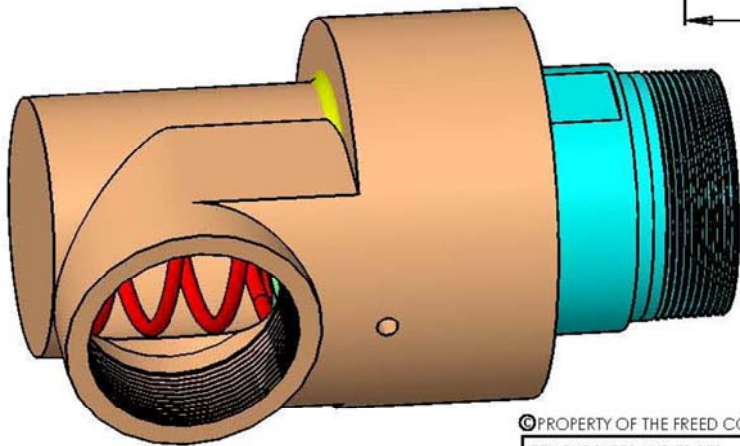
# The drawing of HD90 Rotary Joint



HD90 Rotary Joint



Surface Contour for Single Flow HD90 Rotary Joint.



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, Air, oil.

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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5						MATERIAL NO.:		REMARKS: .			
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		THE FREED CORPORATION			
USA MATERIAL: .						DRAWN BY: Steven		DRNO.: FDRN0201204-02			
DIM						T12		DIM		T12	
0-3mm						±0.05		>3-6mm		±0.06	
>3-6mm						±0.06		>6-10mm		±0.08	
>6-10mm						±0.08		>10-18mm		±0.09	
>10-18mm						±0.09		>18-30mm		±0.11	
>18-30mm						±0.11		>30-50mm		±0.13	
>30-50mm						±0.13		>50-80		±0.15	
>50-80						±0.15		>80-120		±0.18	
>80-120						±0.18		>120-180		±0.20	
>120-180						±0.20		>180-250		±0.23	
>180-250						±0.23		>250-315		±0.26	
>250-315						±0.26		>315-400		±0.28	
>315-400						±0.28		>400-500		±0.32	
>400-500						±0.32		>500-630		±0.35	
>500-630						±0.35		>630-800		±0.40	
>630-800						±0.40		>800-1000		±0.45	
>800-1000						±0.45		>1000-1250		±0.53	
>1000-1250						±0.53		>1250-1600		±0.63	
>1250-1600						±0.63		CHECKED BY: Frank		DNNO.: FEDN201204-02	
TREATMENT: .						DATE: 2012-4-17		REF. DWG NO.: SW : 803080992		SYMBLE NUMBER: HD090991R	
ITEM NUMBER: 801090991401						SCALE 1:1		PAGE 1 OF 1		DWG NO.: 801090991401	

PROJECT VIEW:

NAME: HD90 ROTARY JOINT  
ASSEMBLY DRAWING  
CFG: JOINT HD

SCALE: 1:1

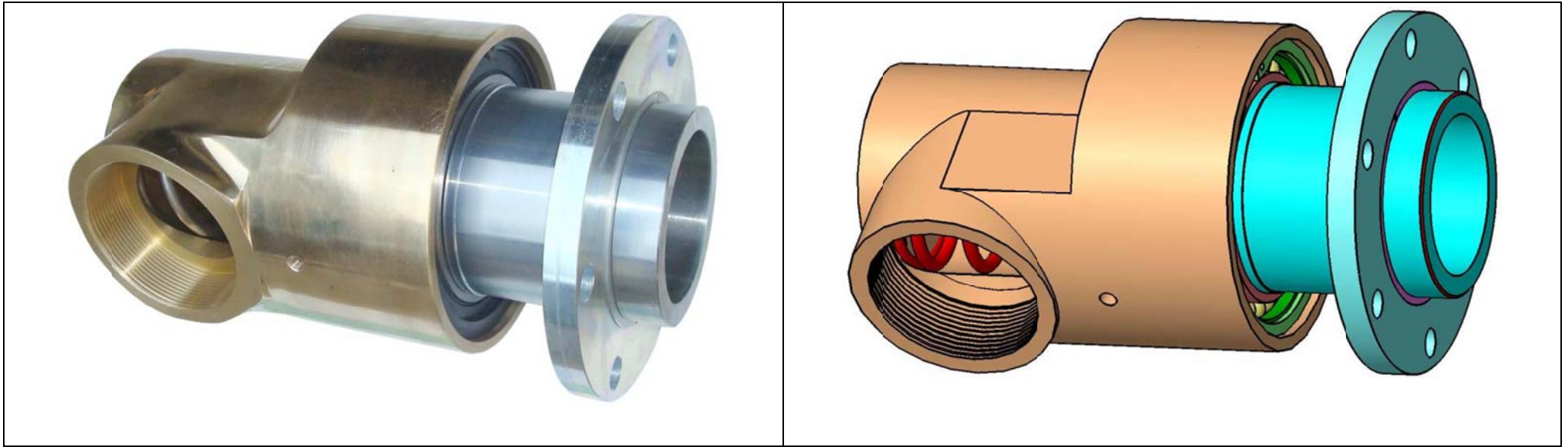
PAGE 1 OF 1

DWG NO.: 801090991401

REV. A

## HDF Rotary Joint

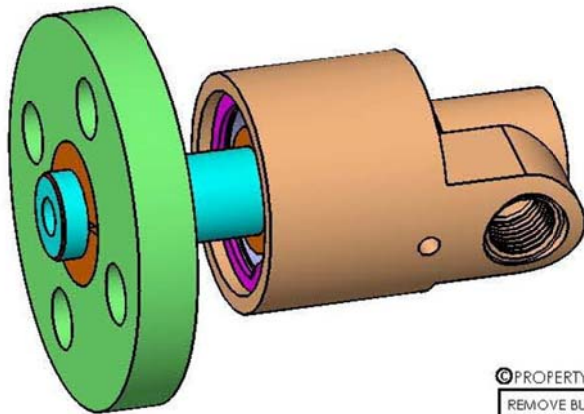
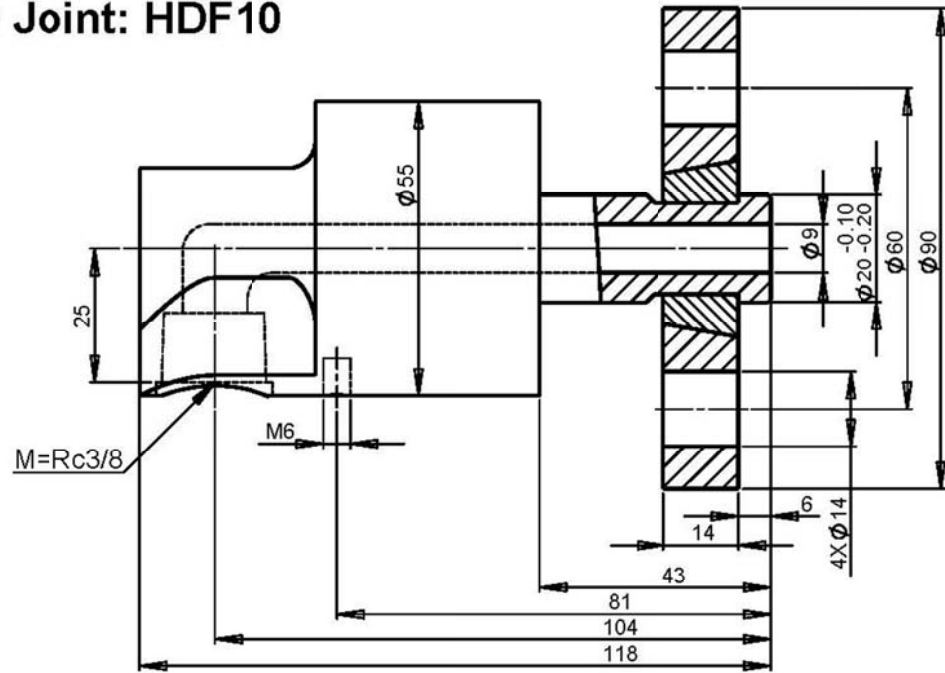
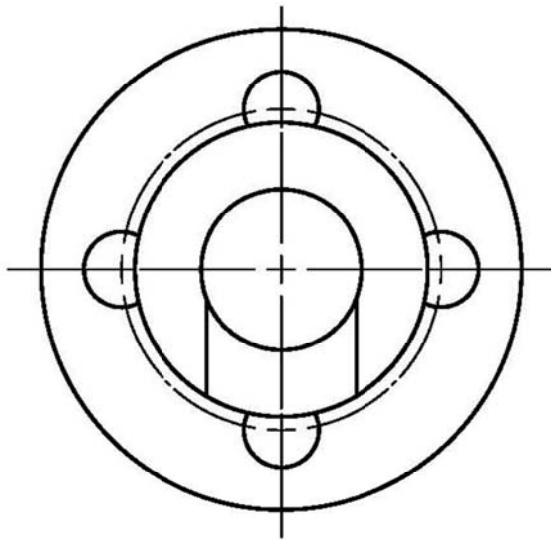
Type HDF Single flow, rotary joint with quick release flanged nipple



Type HDF Single flow, rotary joint with quick release flanged nipple

The drawing of HDF10 Rotary Joint

Rotary Joint: HDF10

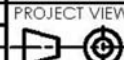


H ROTARY JOINT

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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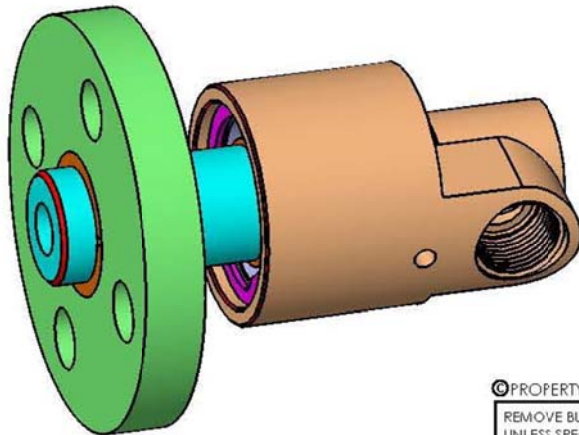
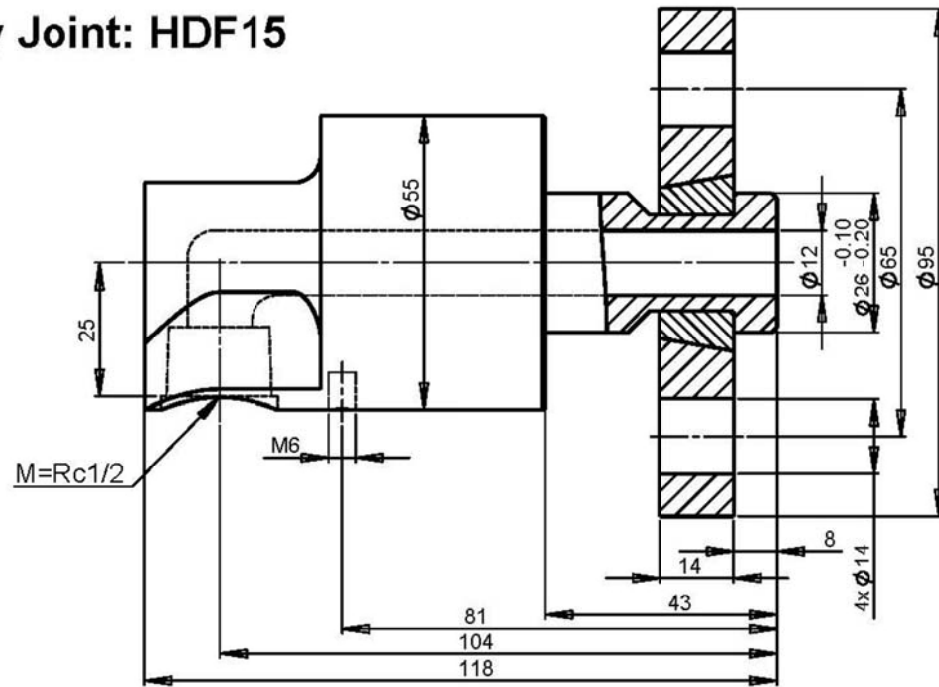
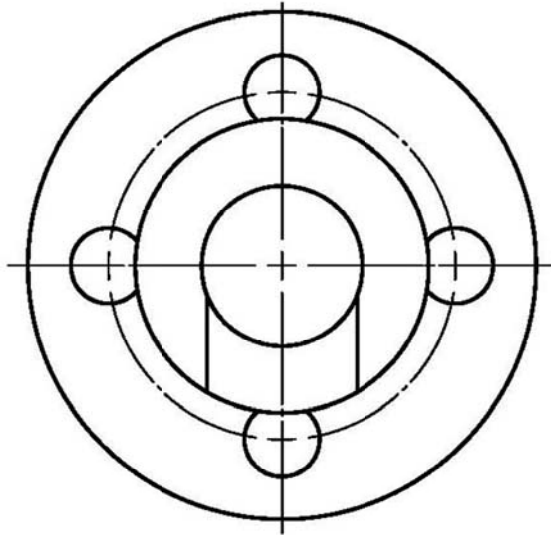
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
						USA MATERIAL: .			
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven		DRNO.: FDRNO200807-06	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank		DNNO.: FEDN200807-06	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	TREATMENT: .		DATE: 2008-9-3	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	REF. DWG NO.: SW : 801010991		PROJECT VIEW	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	SYMBLE NUMBER: HDF010991Q		NAME: HDF10 ROTARY JOINT	
>18-30mm	±0.11	>30-50mm	±0.13			ITEM NUMBER: 801010991501		ASSEMBLY DRAWING	
>30-50mm	±0.13							CFG:JOINT HDF10	
								PAGE 1 OF 1	
								DWG NO.: 801010991501	
								REV. A	



SCALE 1:1

# The drawing of HDF15 Rotary Joint

## Rotary Joint: HDF15



### H ROTARY JOINT

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.05	>6-10mm	±0.06	>10-18mm	±0.09
>6-10mm	±0.06	>10-18mm	±0.08	>18-30mm	±0.11
>10-18mm	±0.08	>18-30mm	±0.11	>30-50mm	±0.13
>18-30mm	±0.09	>30-50mm	±0.13		
>30-50mm	±0.13				

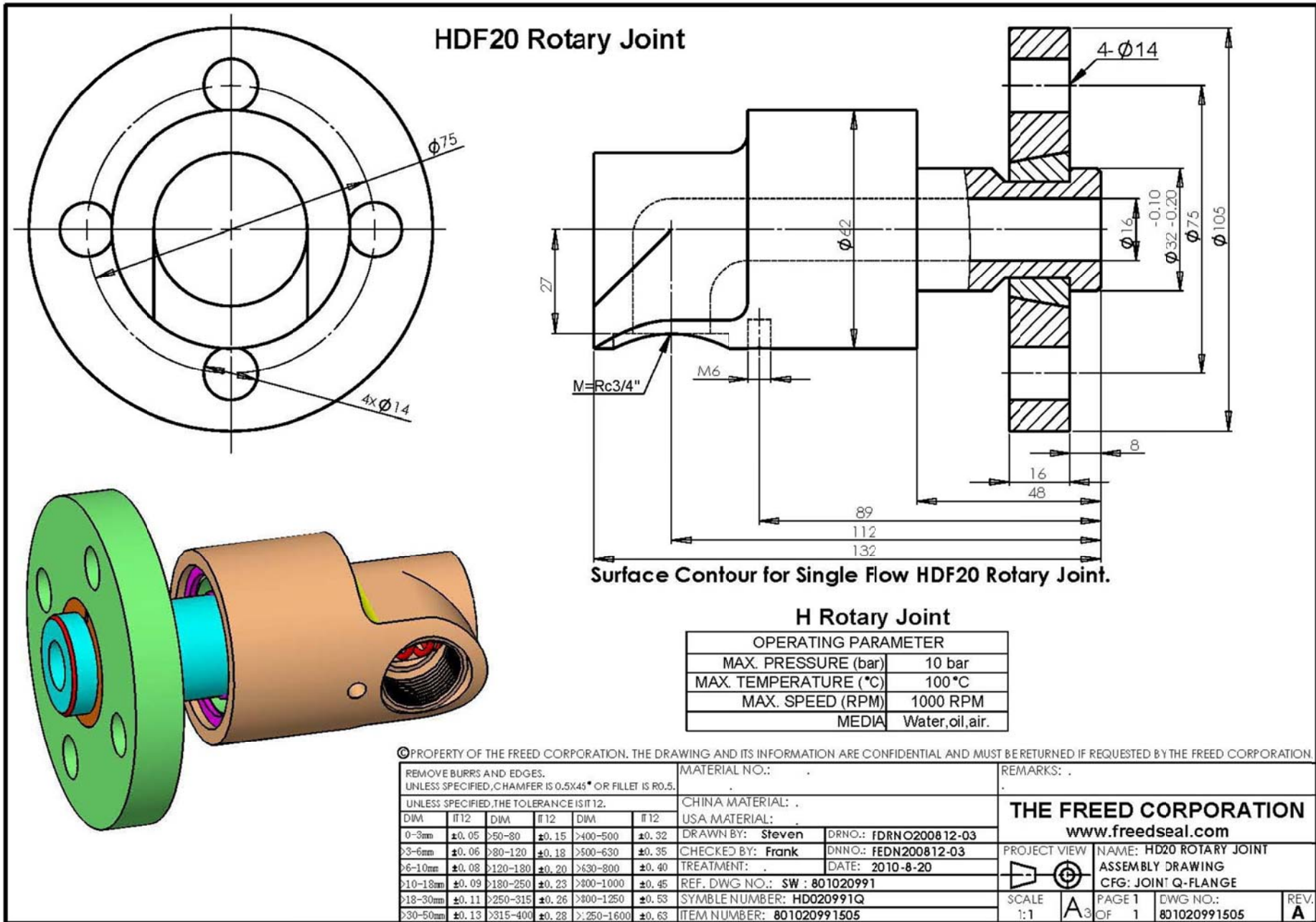
MATERIAL NO.:	REMARKS:
CHINA MATERIAL:	
USA MATERIAL:	
DRAWN BY: Steven	DRNO.: FDRNO200807-06
CHECKED BY: Frank	DNNNO.: FEDN200807-06
TREATMENT:	DATE: 2008-9-3
REF. DWG NO.: SW : 801010991	
SYMBLE NUMBER: HDF015991Q	
ITEM NUMBER: 801010991502	

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PROJECT VIEW: NAME: HDF15 ROTARY JOINT  
ASSEMBLY DRAWING  
CFG: JOINT HDF15

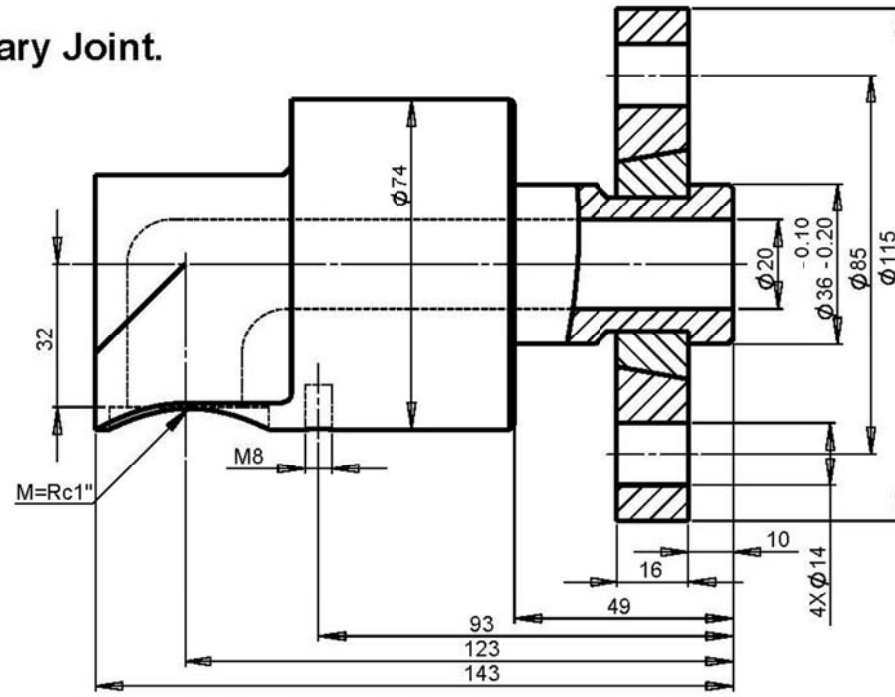
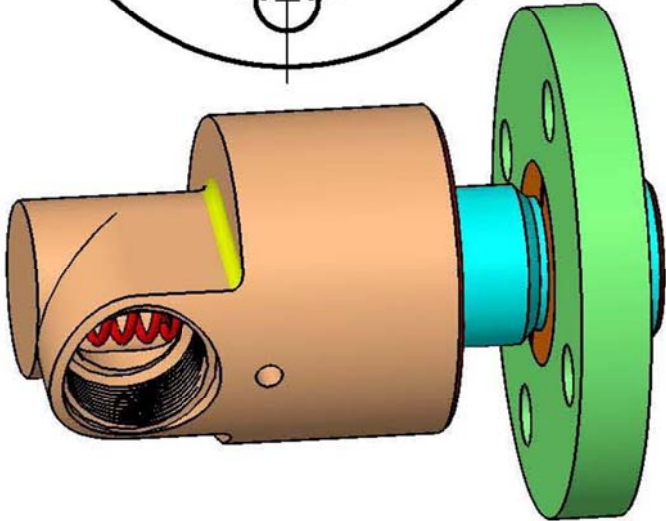
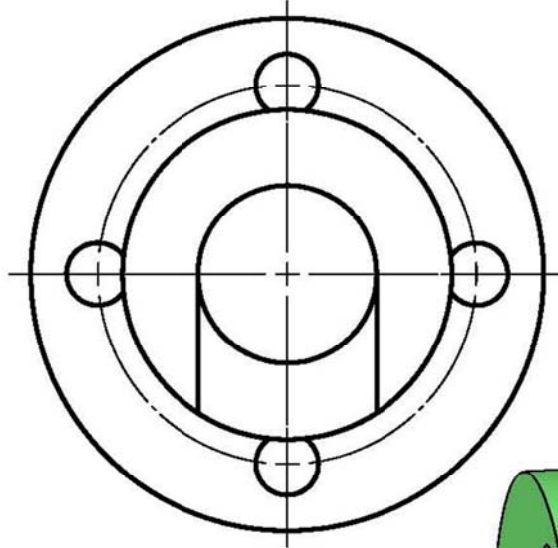
SCALE: 1:1 PAGE 1 OF 1 DWG NO.: 801010991502 REV. A

# The drawing of HDF20 Rotary Joint



# The drawing of HDF25 Rotary Joint

## HDF25 Rotary Joint.



Surface Contour for Single Flow HDF25 Rotary Joint.

### H Rotary Joint

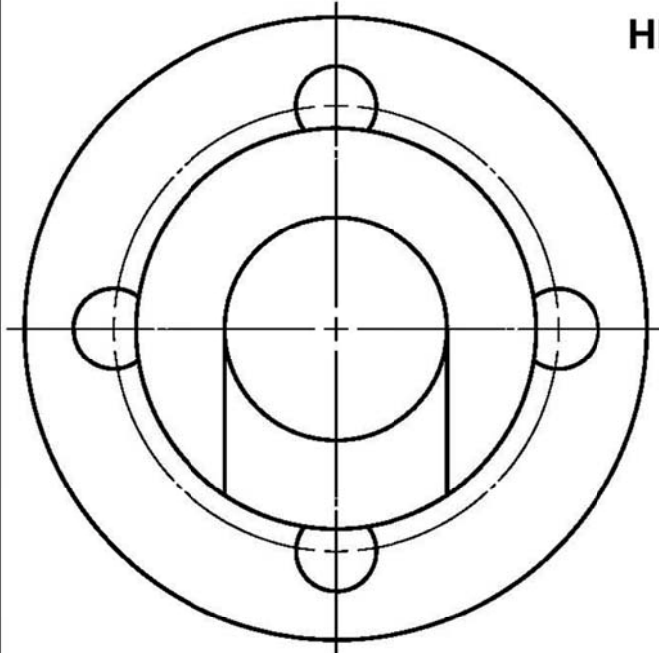
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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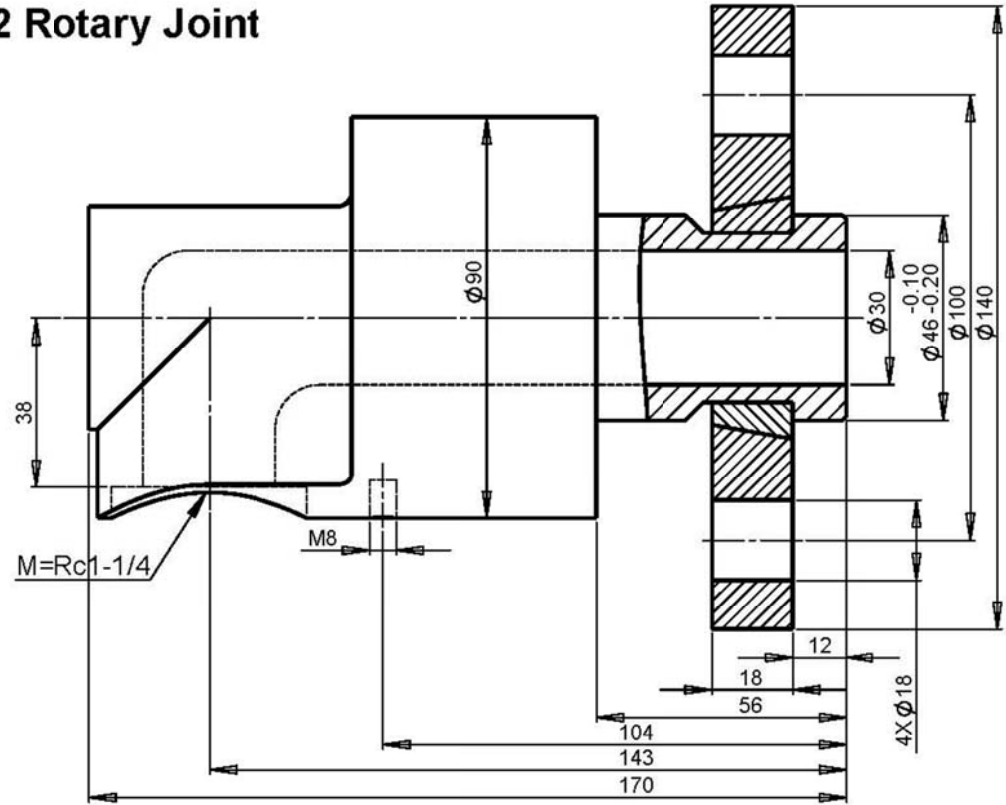
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> <a href="http://www.freedseal.com">www.freedseal.com</a>	
USA MATERIAL: .						DRAWN BY: Steven			
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNO.: FEDN200807-05	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	TREATMENT: .		DATE: 2009-10-18	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	REF. DWG NO.: SW : 801025991		PROJECT VIEW	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	SYMBLE NUMBER: HDF025991R		NAME: HDF25 ROTARY JOINT	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	ITEM NUMBER: 801025991501		ASSEMBLY DRAWING	
>18-30mm	±0.11	>30-50mm	±0.13					CFG: JOINT HD	
>30-50mm	±0.13							SCALE 1:1	
								PAGE 1 OF 1	
								DWG NO.: 801025991501	
								REV. A	

# The drawing of HDF32 Rotary Joint

## HDF32 Rotary Joint

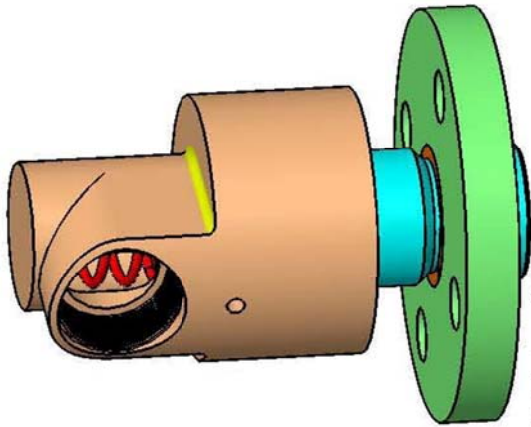


Surface Contour for Single Flow HDF32 Rotary Joint.



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, OIL, air.



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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

MATERIAL NO.:

REMARKS:

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

CHINA MATERIAL:

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DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>30-50mm	±0.13	>1250-1600	±0.63		

USA MATERIAL:

DRAWN BY: Steven DRNO: FDRNO200811-03

CHECKED BY: Frank DNNNO: FEDN200811-03

TREATMENT: DATE: 2008-11-11

REF. DWG NO.: SW : 801032991

SYMBLE NUMBER: HD032991Q

ITEM NUMBER: 801032991501

PROJECT VIEW

NAME: HDF32 ROTARY JOINT

ASSEMBLY DRAWING

CFG: JOINT HD

SCALE 1:1

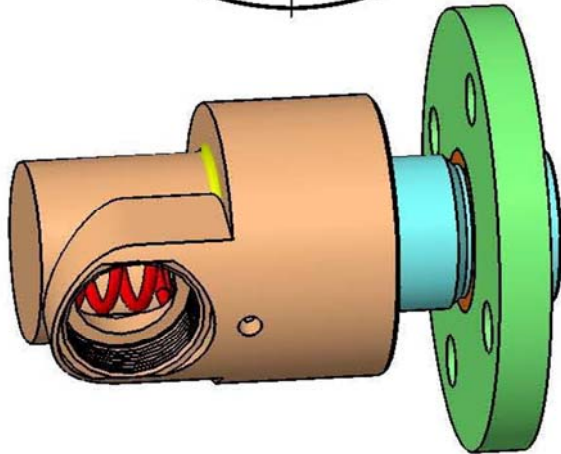
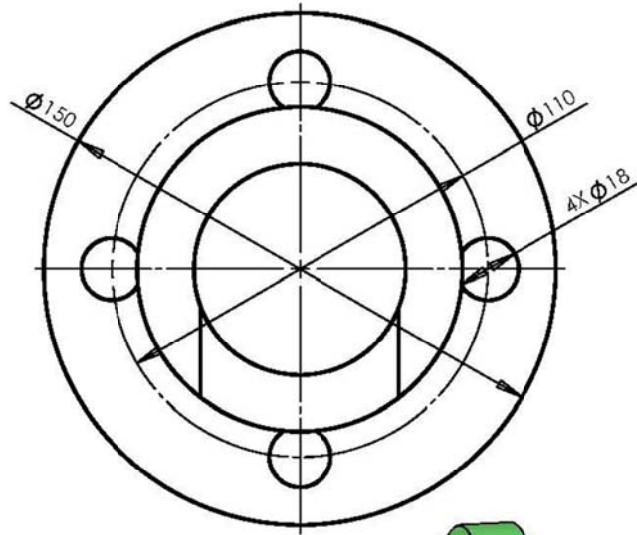
PAGE 1

DWG NO.: 801032991501

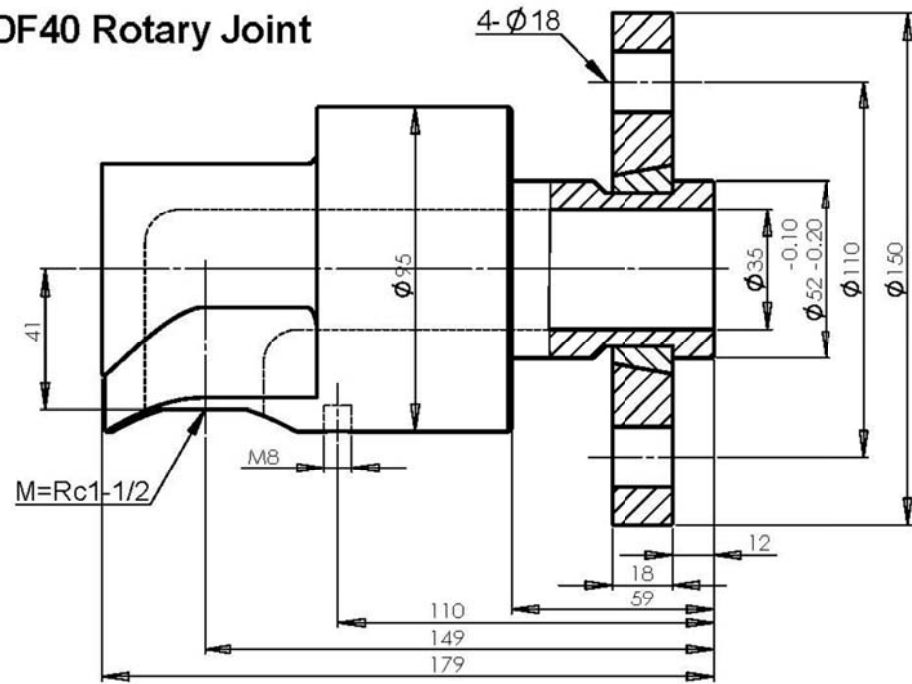
OF 1

REV. A

# The drawing of HDF40 Rotary Joint



## HDF40 Rotary Joint



Surface Contour for Single Flow HDF40 Rotary Joint.

## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, Air

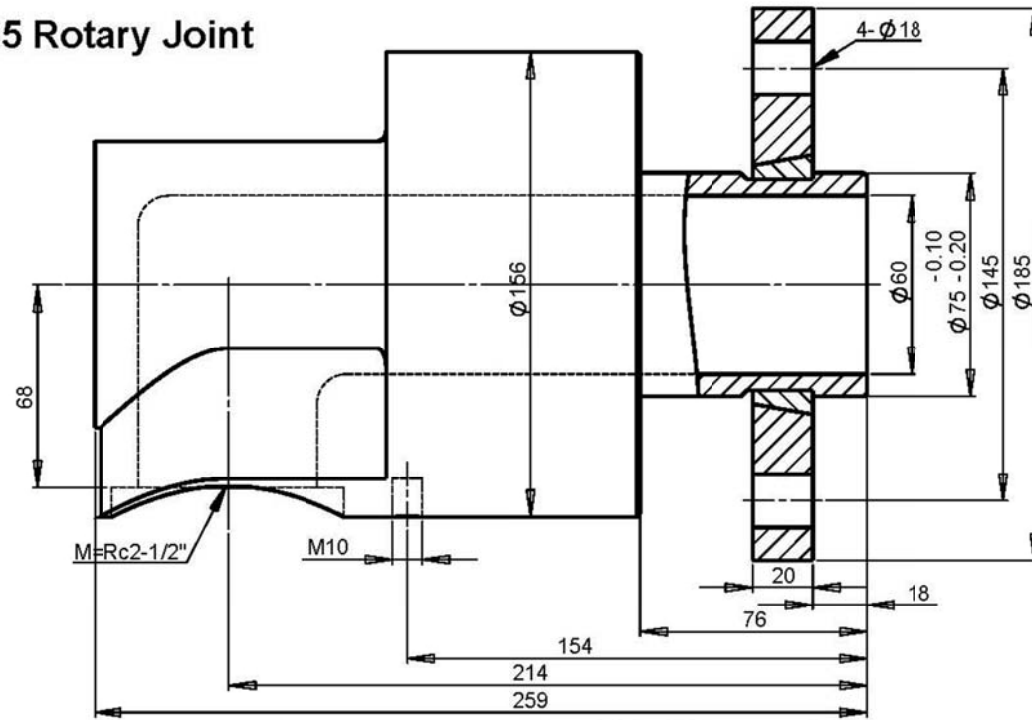
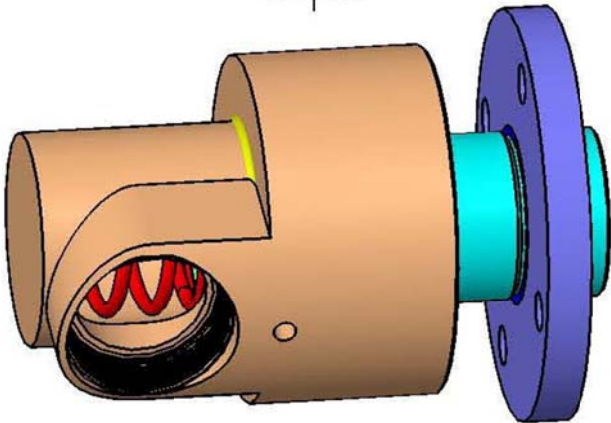
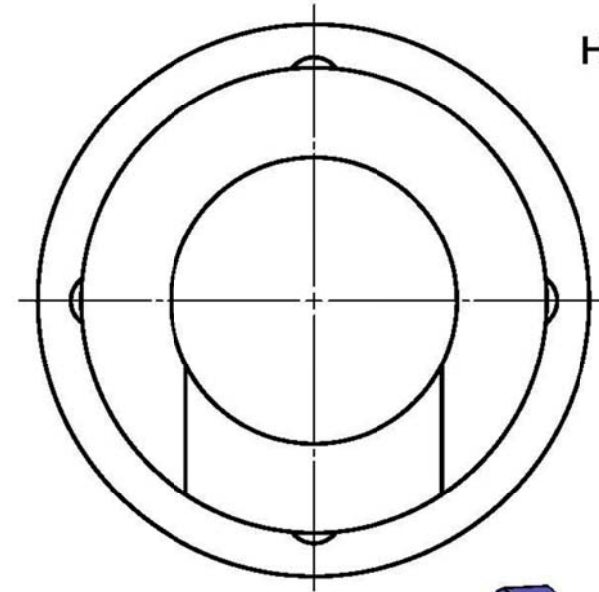
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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
USA MATERIAL: .						DRAWN BY: Steven			
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNO.: FEDN200811-02	
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32	TREATMENT: .		DATE: 2008-12-20	
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	REF. DWG NO.: SW : 801040992		PROJECT VIEW	
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40	SYMBLE NUMBER: HD040991F		NAME: HDF40 ROTARY JOINT	
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	ITEM NUMBER: 801040991500		ASSEMBLY DRAWING	
>18-30mm	±0.11	>250-315	±0.26	>800-1250	±0.53	SCALE 1:1		CFG: JOINT HDF ASM	
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63	PAGE 1 OF 1		DWG NO.: 801040991500	
								REV. A	



# The drawing of HDF65 Rotary Joint

## HDF65 Rotary Joint



Surface Contour for Single Flow HDF65 Rotary Joint.

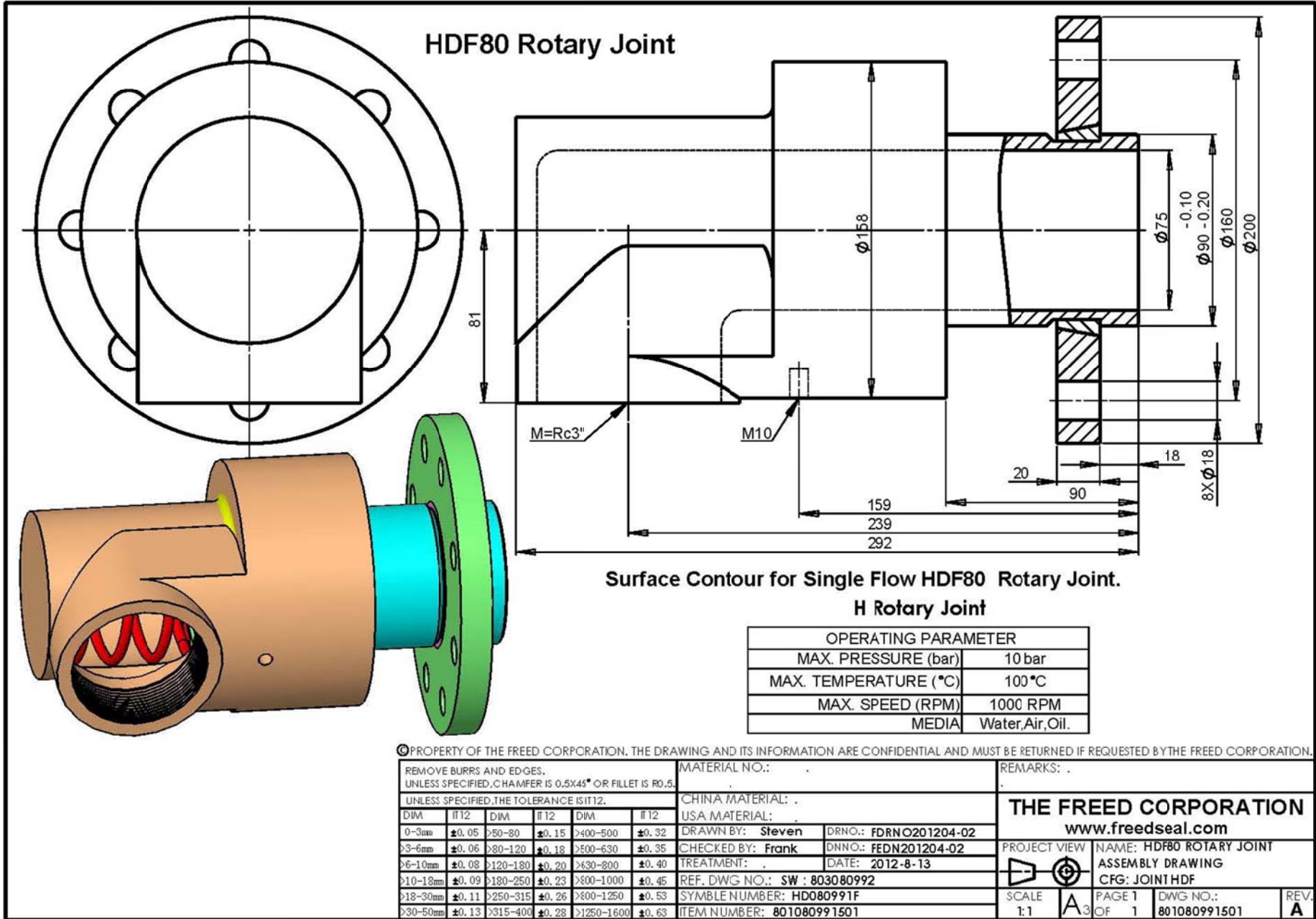
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,Air

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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:																																									
UNLESS SPECIFIED, THE TOLERANCE IS IT 12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com																																									
<table border="1"> <thead> <tr> <th>DWA</th> <th>IT12</th> <th>DWA</th> <th>IT12</th> <th>DWA</th> <th>IT12</th> </tr> </thead> <tbody> <tr> <td>0-3mm</td> <td>±0.05</td> <td>&gt;50-80</td> <td>±0.15</td> <td>&gt;400-500</td> <td>±0.32</td> </tr> <tr> <td>&gt;3-6mm</td> <td>±0.06</td> <td>&gt;80-120</td> <td>±0.18</td> <td>&gt;500-630</td> <td>±0.35</td> </tr> <tr> <td>&gt;6-10mm</td> <td>±0.08</td> <td>&gt;120-180</td> <td>±0.20</td> <td>&gt;630-800</td> <td>±0.40</td> </tr> <tr> <td>&gt;10-18mm</td> <td>±0.09</td> <td>&gt;180-250</td> <td>±0.23</td> <td>&gt;800-1000</td> <td>±0.45</td> </tr> <tr> <td>&gt;18-30mm</td> <td>±0.11</td> <td>&gt;250-315</td> <td>±0.26</td> <td>&gt;1000-1250</td> <td>±0.53</td> </tr> <tr> <td>&gt;30-50mm</td> <td>±0.13</td> <td>&gt;315-400</td> <td>±0.28</td> <td>&gt;1250-1600</td> <td>±0.63</td> </tr> </tbody> </table>						DWA	IT12			DWA	IT12	DWA	IT12	0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32	>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40	>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	>18-30mm	±0.11	>250-315	±0.26	>1000-1250	±0.53	>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63
DWA	IT12	DWA	IT12	DWA	IT12																																												
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32																																												
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35																																												
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40																																												
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45																																												
>18-30mm	±0.11	>250-315	±0.26	>1000-1250	±0.53																																												
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63																																												
DRAWN BY: Steven						DRNO.: FDRNO200812-04		PROJECT VIEW 																																									
CHECKED BY: Frank						DNNO.: FEDN200812-04																																											
TREATMENT:						DATE: 2011-7-7		NAME: HDF65 ROTARY JOINT ASSEMBLY DRAWING CFG: JOINT HDF																																									
REF. DWG NO.: SW : 801065991						SYMBLE NUMBER: HD065991F																																											
ITEM NUMBER: 801065991501						SCALE 1:1		PAGE 1 OF 1 DWG NO.: 801065991501 REV. A																																									

# The drawing of HDF80 Rotary Joint



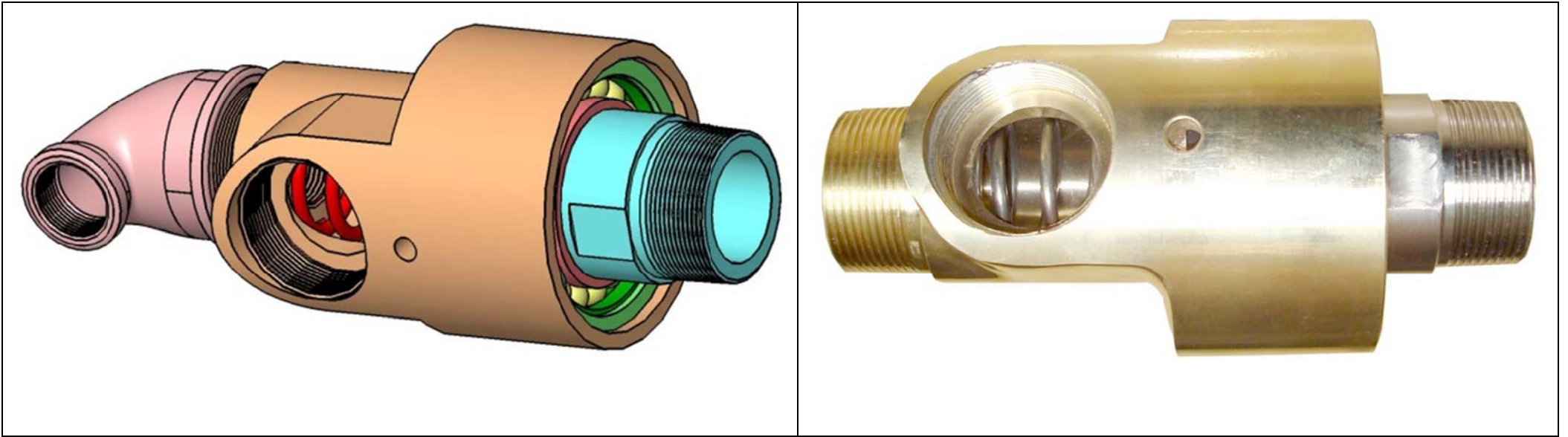
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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.				MATERIAL NO.:		REMARKS: .			
UNLESS SPECIFIED, THE TOLERANCE IS IT12.				CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com			
USA MATERIAL: .				DRAWN BY: Steven				DRNO.: FDRNO201204-02	
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNNO.: FEDN201204-02	
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								PAGE 1 OF 1	
								DWG NO.: 801080991501	
								REV. A	



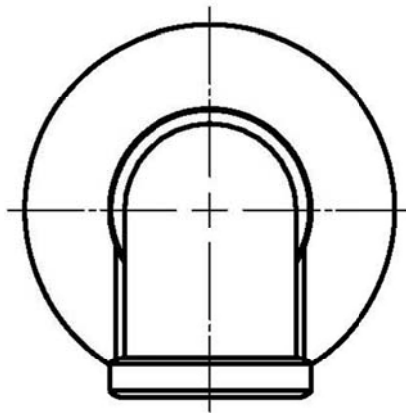
## HSG Rotary Joint

Type HSG, dual flow, fixed internal pipe, rotary joint with threaded nipple

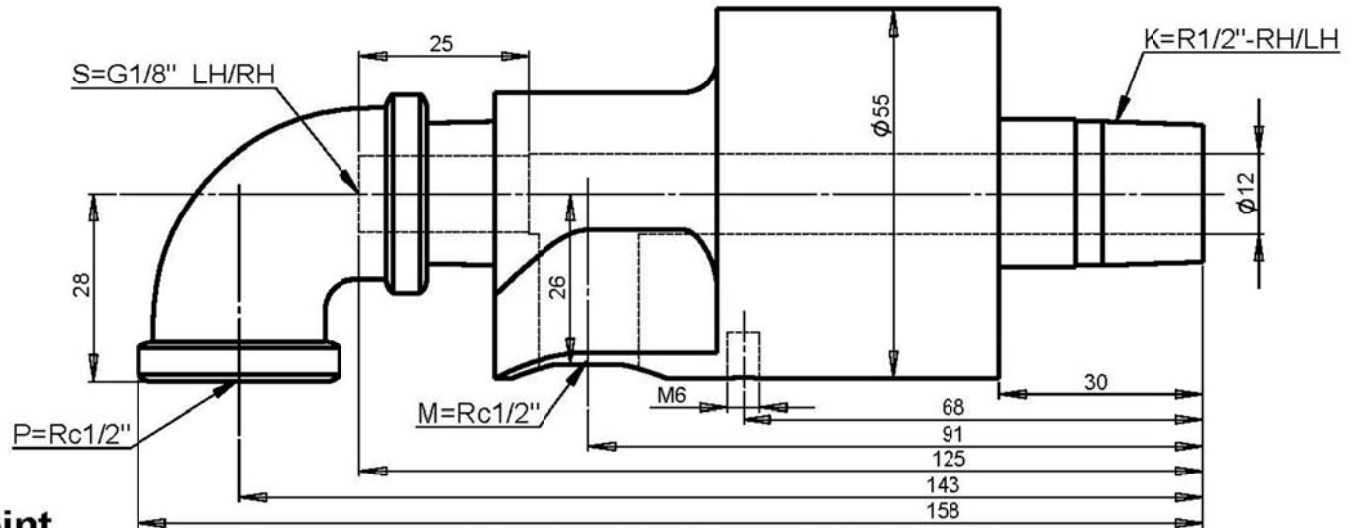


Type HSG, dual flow, fixed internal pipe, rotary joint with threaded nipple

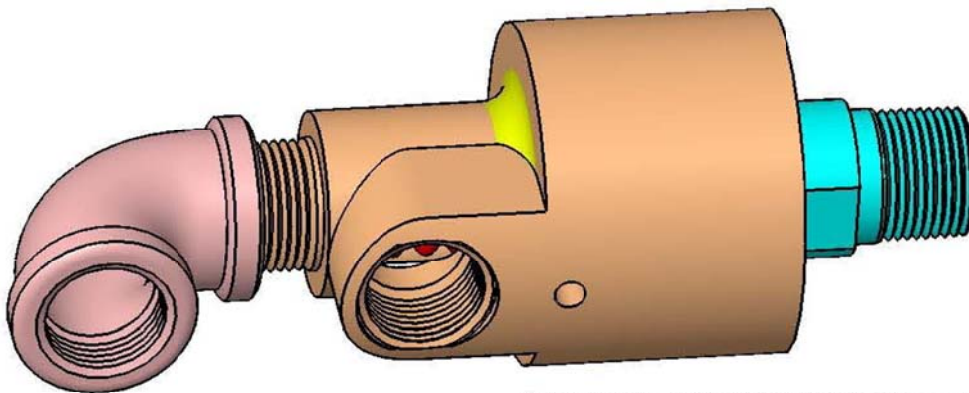
# The drawing of HSG15-6 Rotary Joint



**HS-G15-6 Rotary Joint**



Surface Contour for Dual Flow HS-G15-6 Rotary Joint With Stationary internal Pipe .



**H Rotary Joint**

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

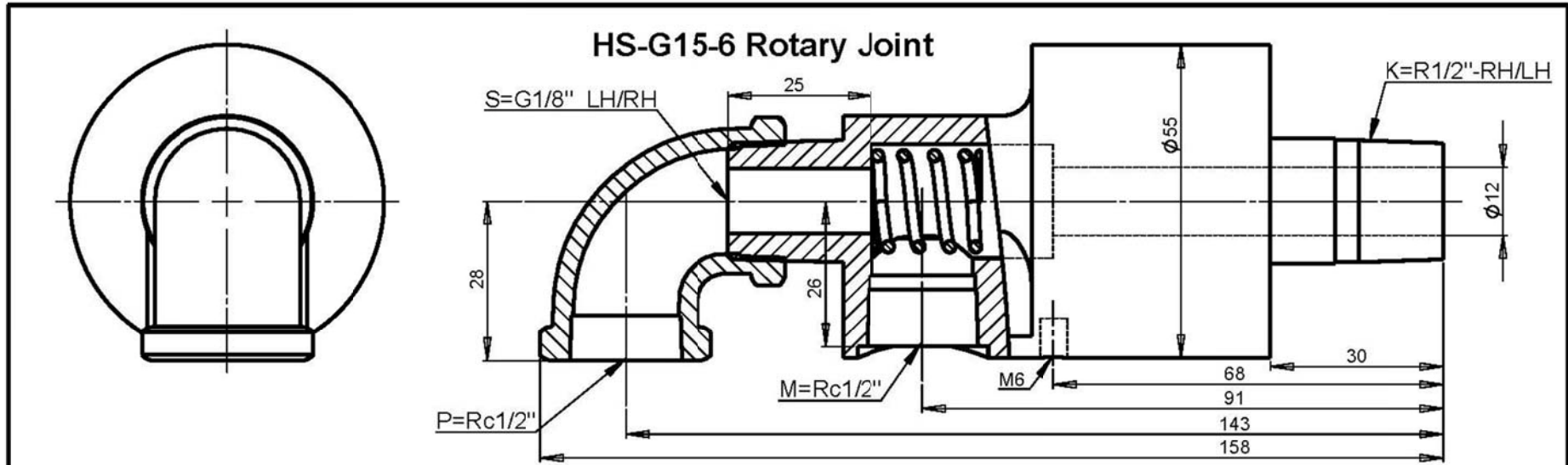
UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
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>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>30-50mm	±0.13	>50-80	±0.15	>80-120	±0.18
>80-120	±0.18	>120-180	±0.20	>180-250	±0.23
>120-180	±0.20	>180-250	±0.23	>250-315	±0.26
>180-250	±0.23	>250-315	±0.26	>315-400	±0.28
>250-315	±0.26	>315-400	±0.28	>400-500	±0.32
>315-400	±0.28	>400-500	±0.32	>500-630	±0.35
>400-500	±0.32	>500-630	±0.35	>630-800	±0.40
>500-630	±0.35	>630-800	±0.40	>800-1000	±0.45
>630-800	±0.40	>800-1000	±0.45	>1000-1250	±0.53
>800-1000	±0.45	>1000-1250	±0.53	>1250-1600	±0.63
>1000-1250	±0.53	>1250-1600	±0.63		

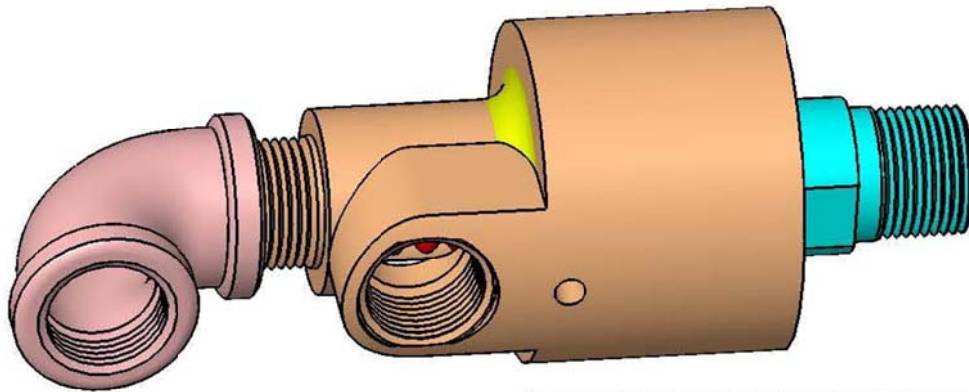
MATERIAL NO.:  
CHINA MATERIAL:  
USA MATERIAL:  
DRAWN BY: Steven  
DRNO.: FDRN0200807-06  
CHECKED BY: Frank  
DNNO.: FEDN200807-06  
TREATMENT:  
DATE: 2008-12-18  
REF. DWG NO.: SW : 800015990  
SYMBLE NUMBER: HG015992R  
ITEM NUMBER: 802015992401

REMARKS:  
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PROJECT VIEW: NAME: HS-G15-6 ROTARY JOINT  
ASSEMBLY DRAWING  
CFG: JOINT HG  
SCALE: 1:1  
PAGE 1 OF 1  
DWG NO.: 802015992401  
REV. A

# The drawing of HSG15-6 Rotary Joint



Surface Contour for Dual Flow HS-G15-6 Rotary Joint With Stationary internal Pipe .



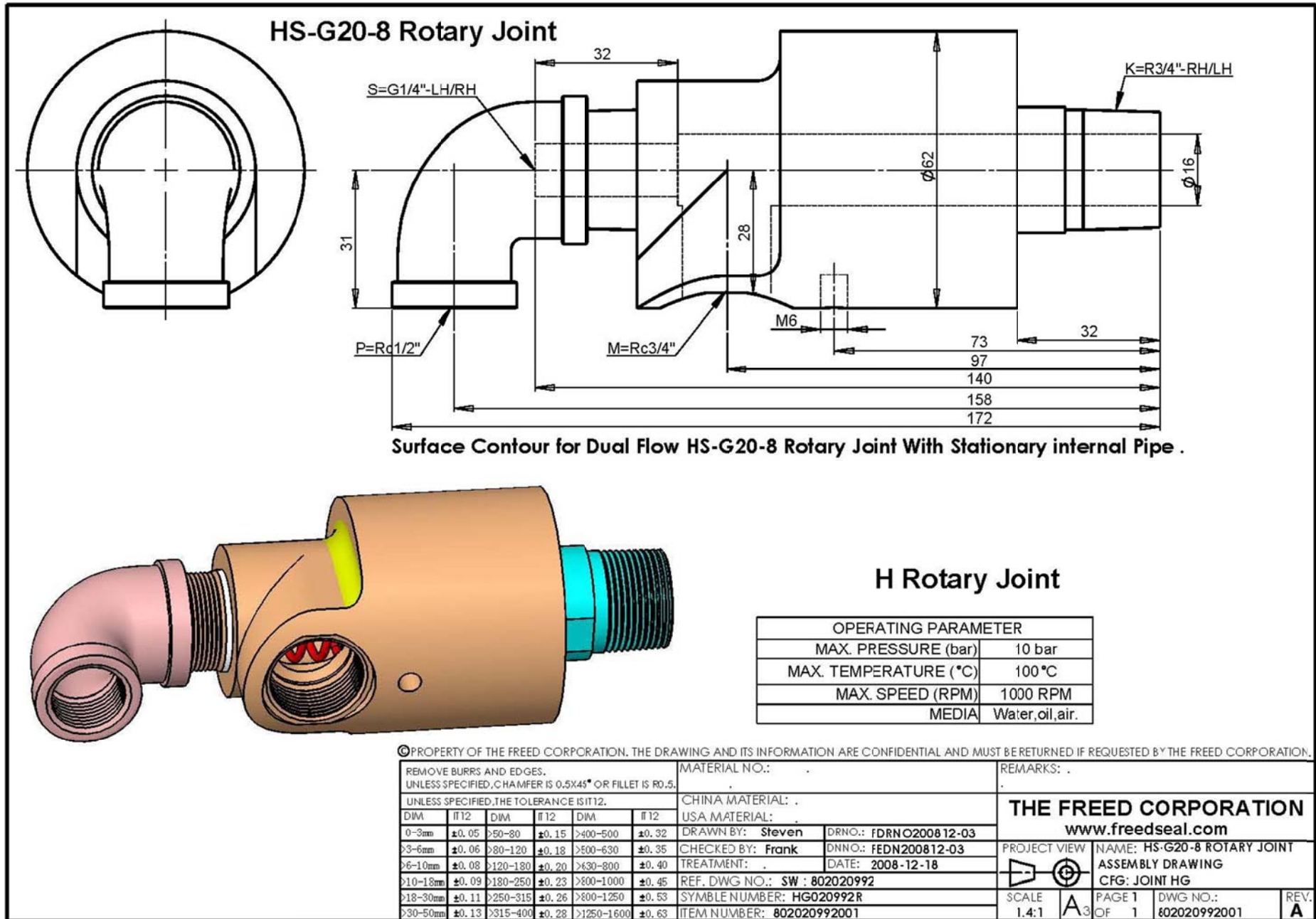
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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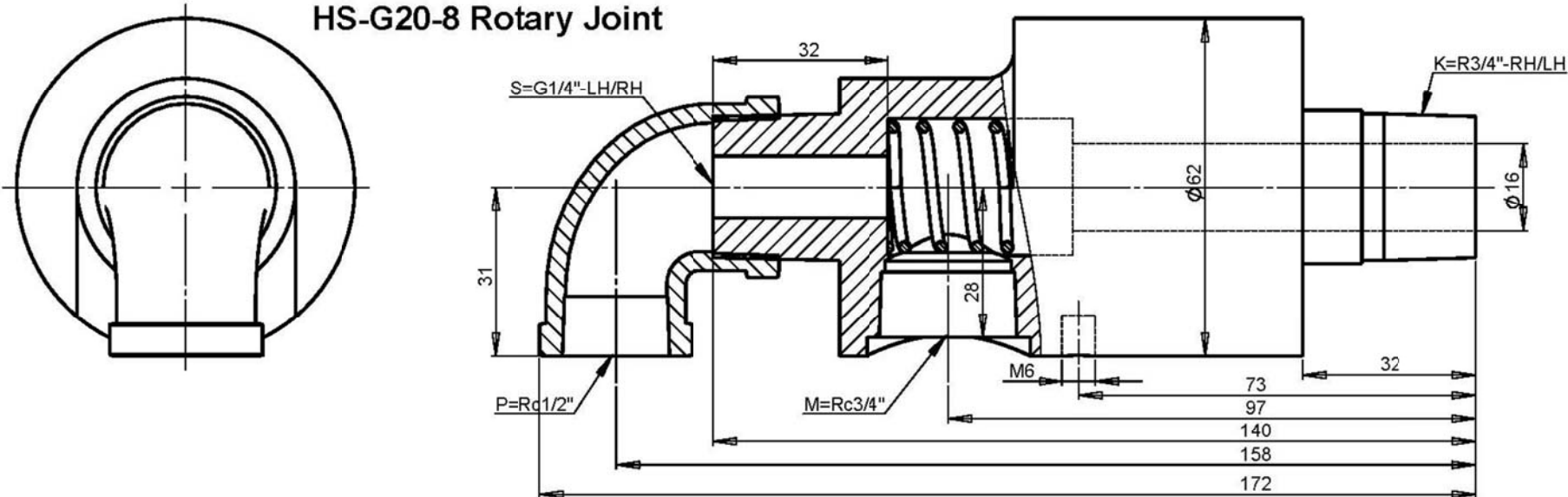
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
USA MATERIAL: .						DRAWN BY: Steven			
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNO.: FEDN200807-06	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	TREATMENT: .		DATE: 2008-12-18	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	REF. DWG NO.: SW : 800015990		PROJECT VIEW	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	SYMBLE NUMBER: HG015992R		NAME: HS-G15-6 ROTARY JOINT	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	ITEM NUMBER: 802015992401		ASSEMBLY DRAWING	
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>30-50mm	±0.13							SCALE 1:1	
								PAGE 1 OF 1	
								DWG NO.: 802015992401	
								REV. A	

# The drawing of HSG20-8 Rotary Joint

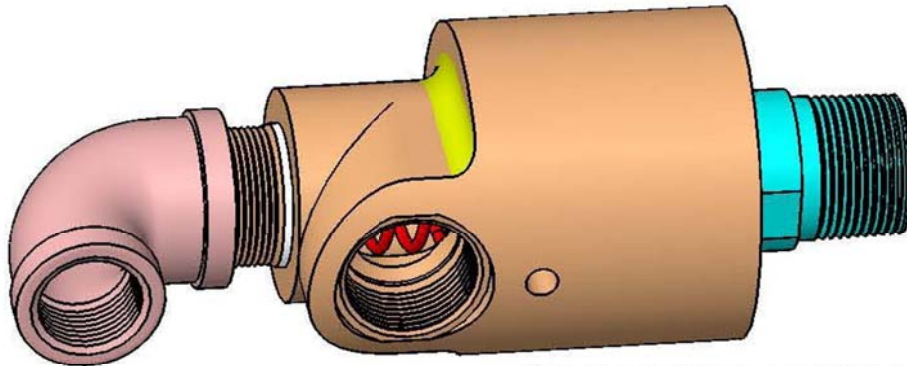


# The drawing of HSG20-8 Rotary Joint

## HS-G20-8 Rotary Joint



Surface Contour for Dual Flow HS-G20-8 Rotary Joint With Stationary internal Pipe .



## H Rotary Joint

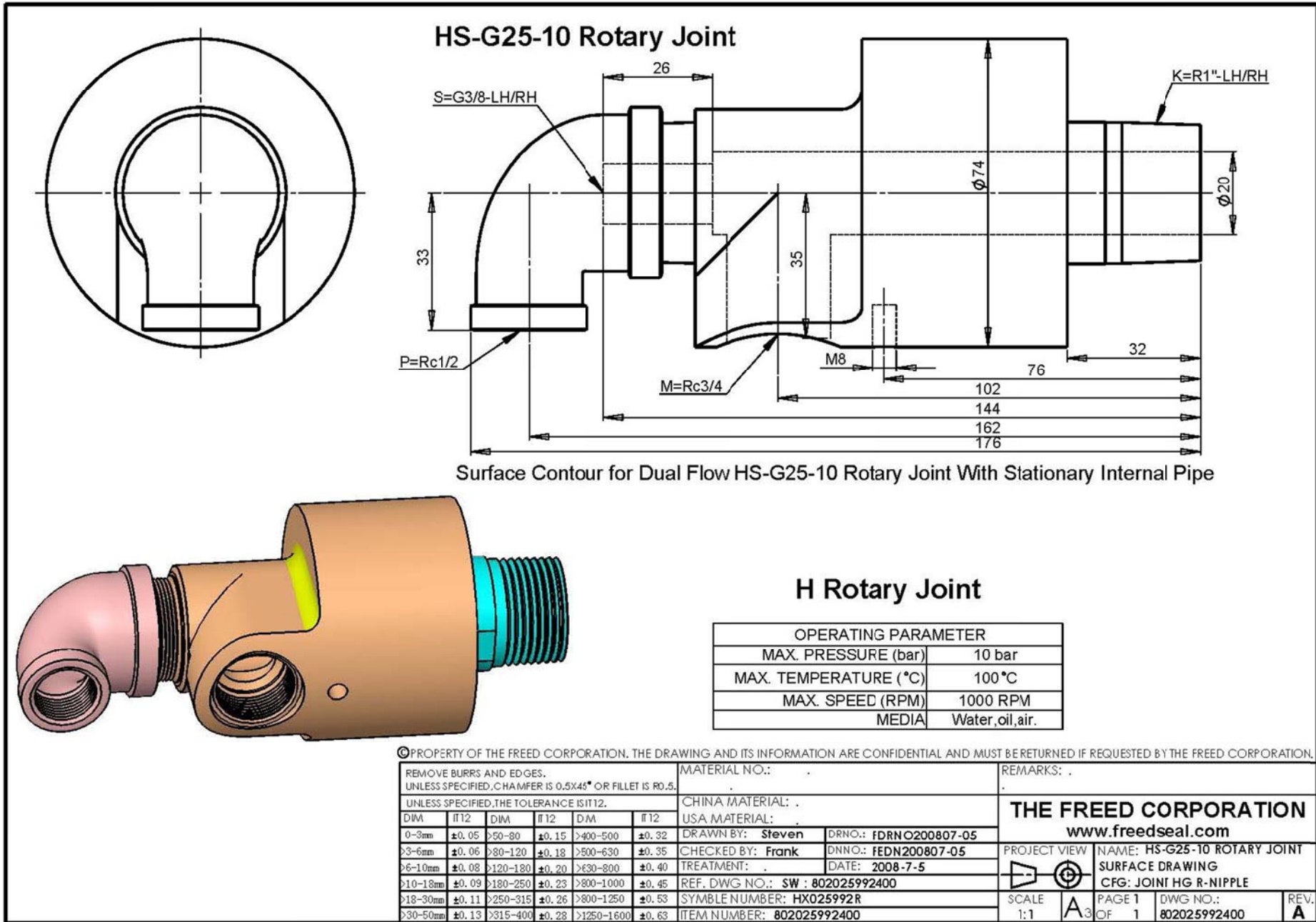
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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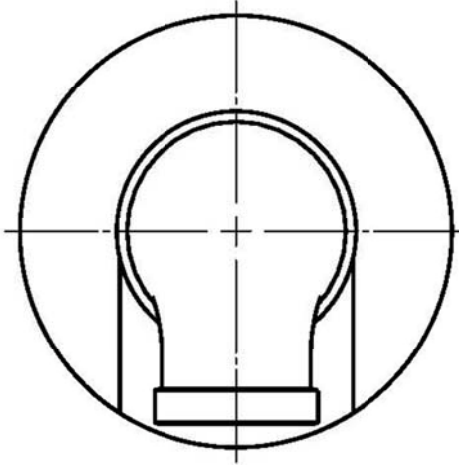
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		USA MATERIAL: .	
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven		DRNO.: FDRN0200812-03	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank		DNNO.: FEDN200812-03	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	TREATMENT: .		DATE: 2008-12-18	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	REF. DWG NO.: SW : 802020992		PROJECT VIEW	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	SYMBLE NUMBER: HG020992R		NAME: HS-G20-8 ROTARY JOINT	
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>30-50mm	±0.13							CFG: JOINT HG	
								SCALE 1.4:1	
								PAGE 1 OF 1	
								DWG NO.: 802020992402	
								REV. A	

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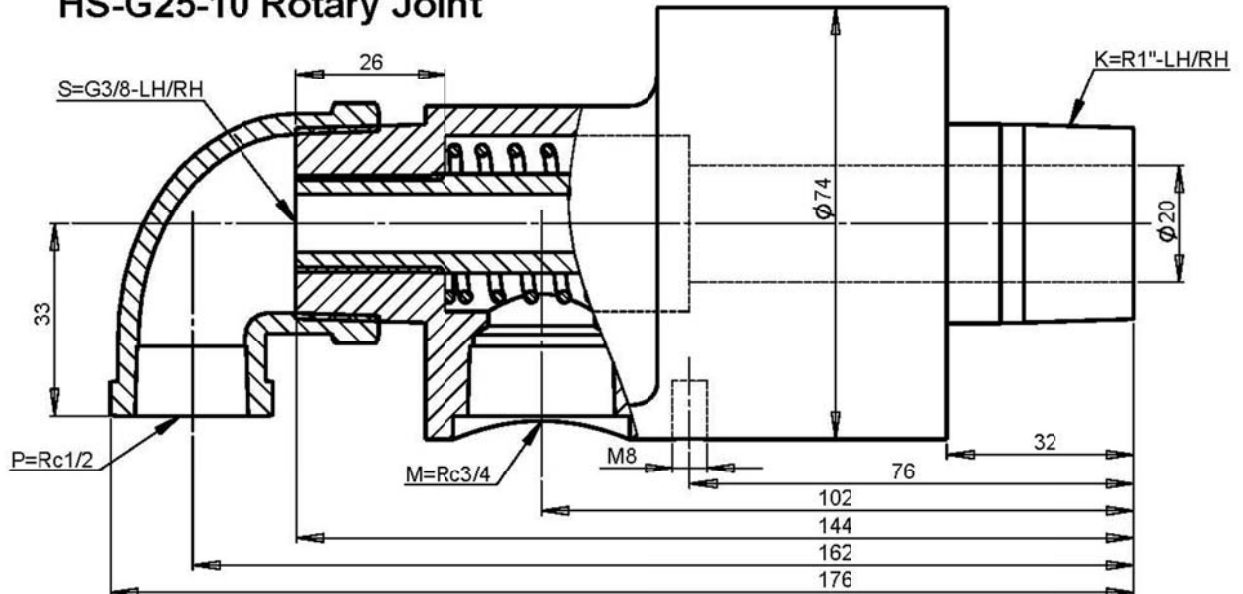
# The drawing of HSG25-10 Rotary Joint



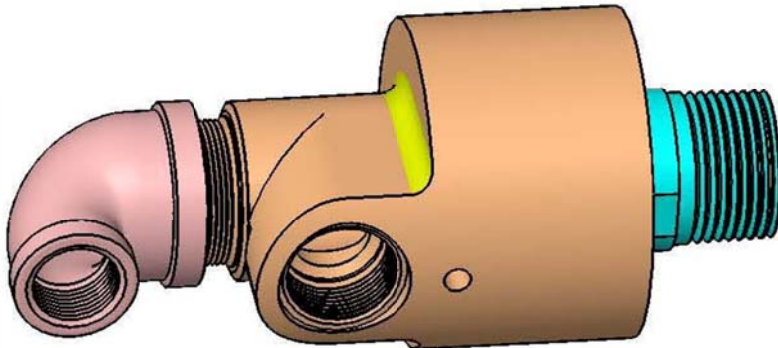
# The drawing of HSG25-10 Rotary Joint



## HS-G25-10 Rotary Joint



Surface Contour for Dual Flow HS-G25-10 Rotary Joint With Stationary Internal Pipe



## H Rotary Joint

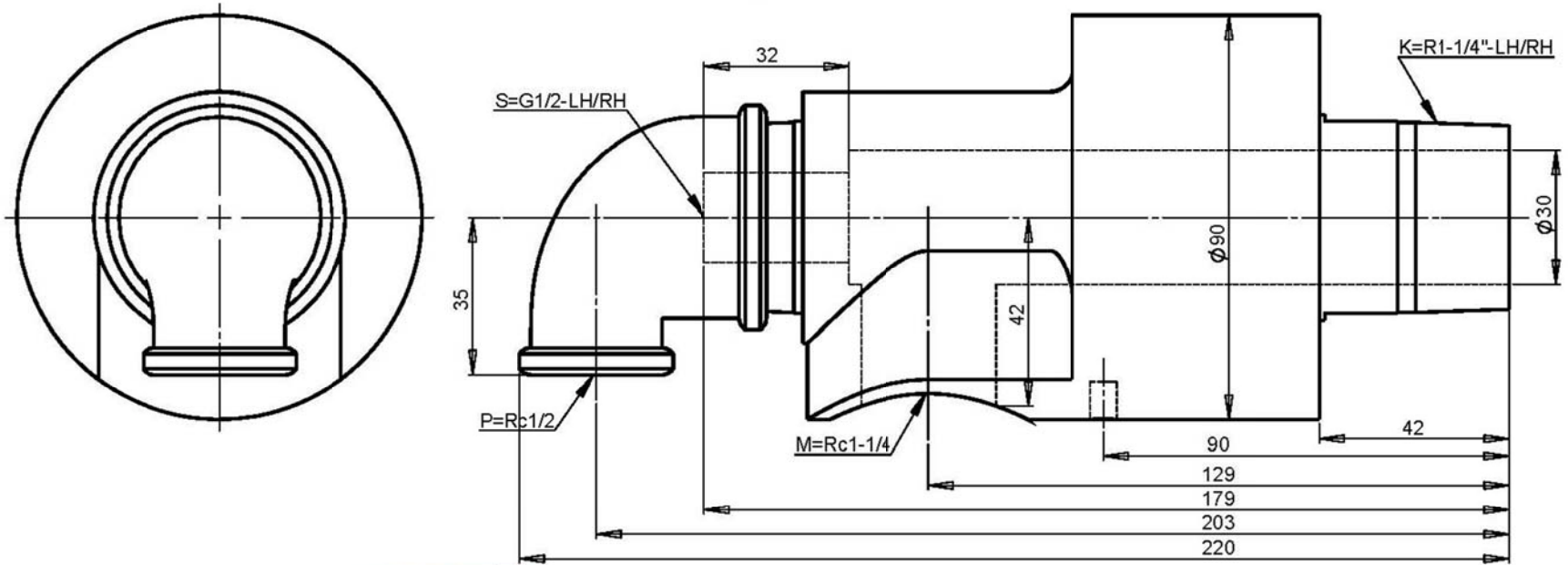
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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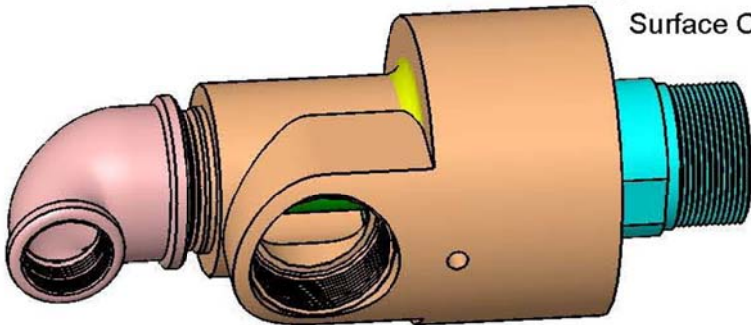
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS: .	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		THE FREED CORPORATION	
DIM	IT12	DIM	IT12	DIM	IT12	USA MATERIAL:		www.freedseal.com	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	DRAWN BY: Steven		DRNO.: FDRNO200807-05	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	CHECKED BY: Frank		DNNO.: FEDN200807-05	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	TREATMENT: .		DATE: 2008-7-5	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	REF. DWG NO.: SW : 802025992400		PROJECT VIEW	
>18-30mm	±0.11	>30-50mm	±0.13			SYMBLE NUMBER: HX025992R		NAME: HS-G25-10 ROTARY JOINT	
>30-50mm	±0.13					ITEM NUMBER: 802025992402		SURFACE DRAWING	
								CFG: JOINT HG R-NIPPLE	
								SCALE 1:1	
								PAGE 1 OF 1	
								DWG NO.: 802025992402	
								REV. A	

# The drawing of HSG32-15 Rotary Joint

## HS-G32-15 Rotary Joint



Surface Contour for Dual Flow HS-G32-15 Rotary Joint With Stationary Internal Pipe



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>18-30mm	±0.11	>30-50mm	±0.13	>50-80mm	±0.15
>30-50mm	±0.13	>80-100mm	±0.15	>100-125mm	±0.18
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>160-200mm	±0.23	>500-630mm	±0.35	>630-800mm	±0.40
>200-250mm	±0.26	>800-1000mm	±0.45	>1000-1250mm	±0.53
>250-315mm	±0.28	>1250-1600mm	±0.63		

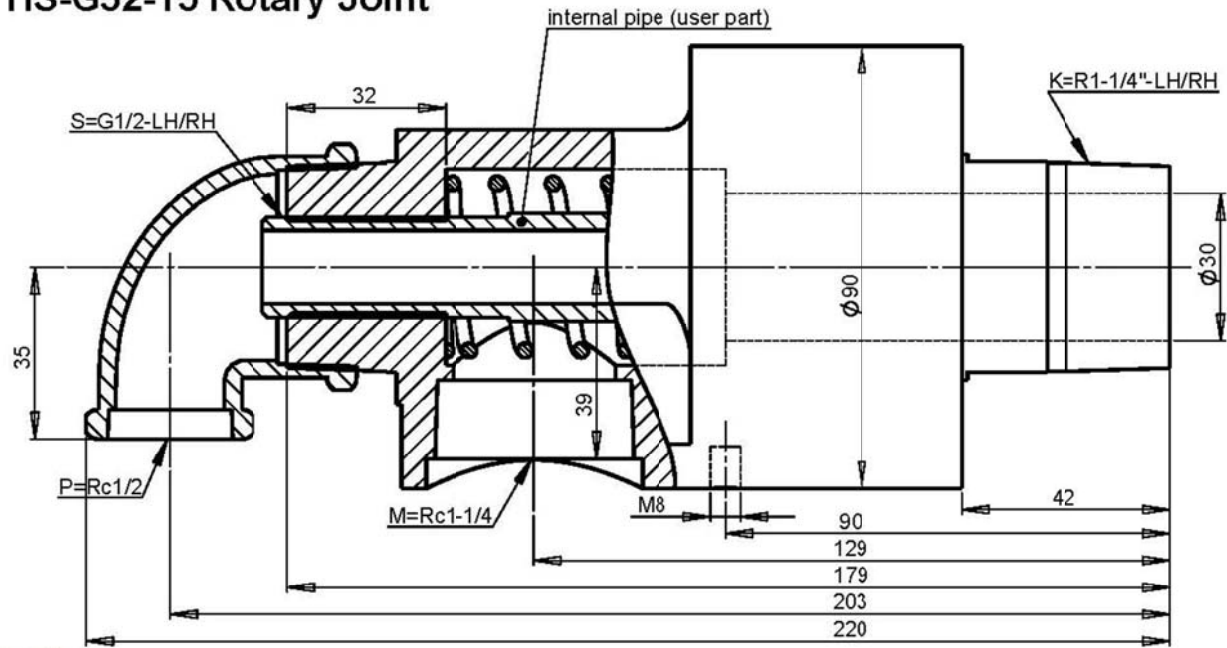
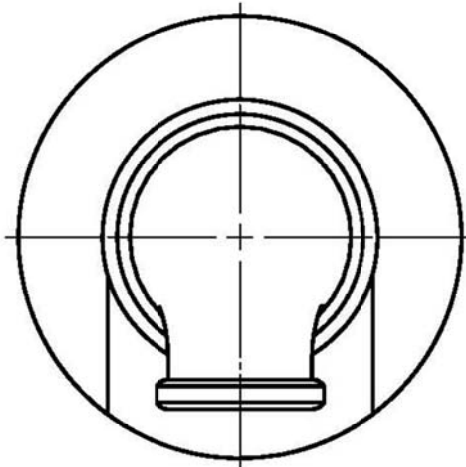
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CHINA MATERIAL:	
USA MATERIAL:	
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CHECKED BY: Frank	DNNO.: FEDN200811-03
TREATMENT:	DATE: 2008-12-19
REF. DWG NO.: SW : 802032992400	
SYMBLE NUMBER: HG032992R	
ITEM NUMBER: 803032992400	

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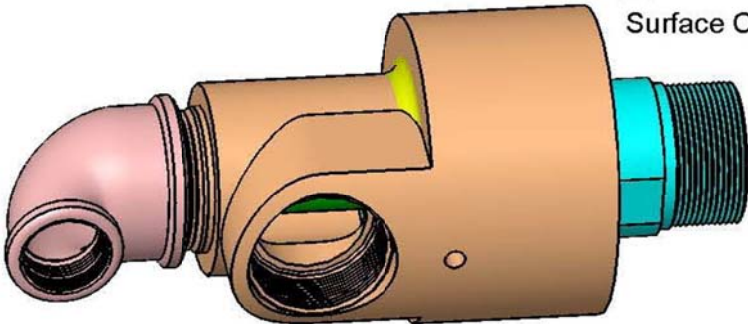
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SCALE 1:1	SURFACE DRAWING
A3	CFG: JOINT HG25
PAGE 1 OF 1	DWG NO.: 802032992400
REV. A	

# The drawing of HSG32-15 Rotary Joint

## HS-G32-15 Rotary Joint



Surface Contour for Dual Flow HS-G32-15 Rotary Joint With Stationary Internal Pipe



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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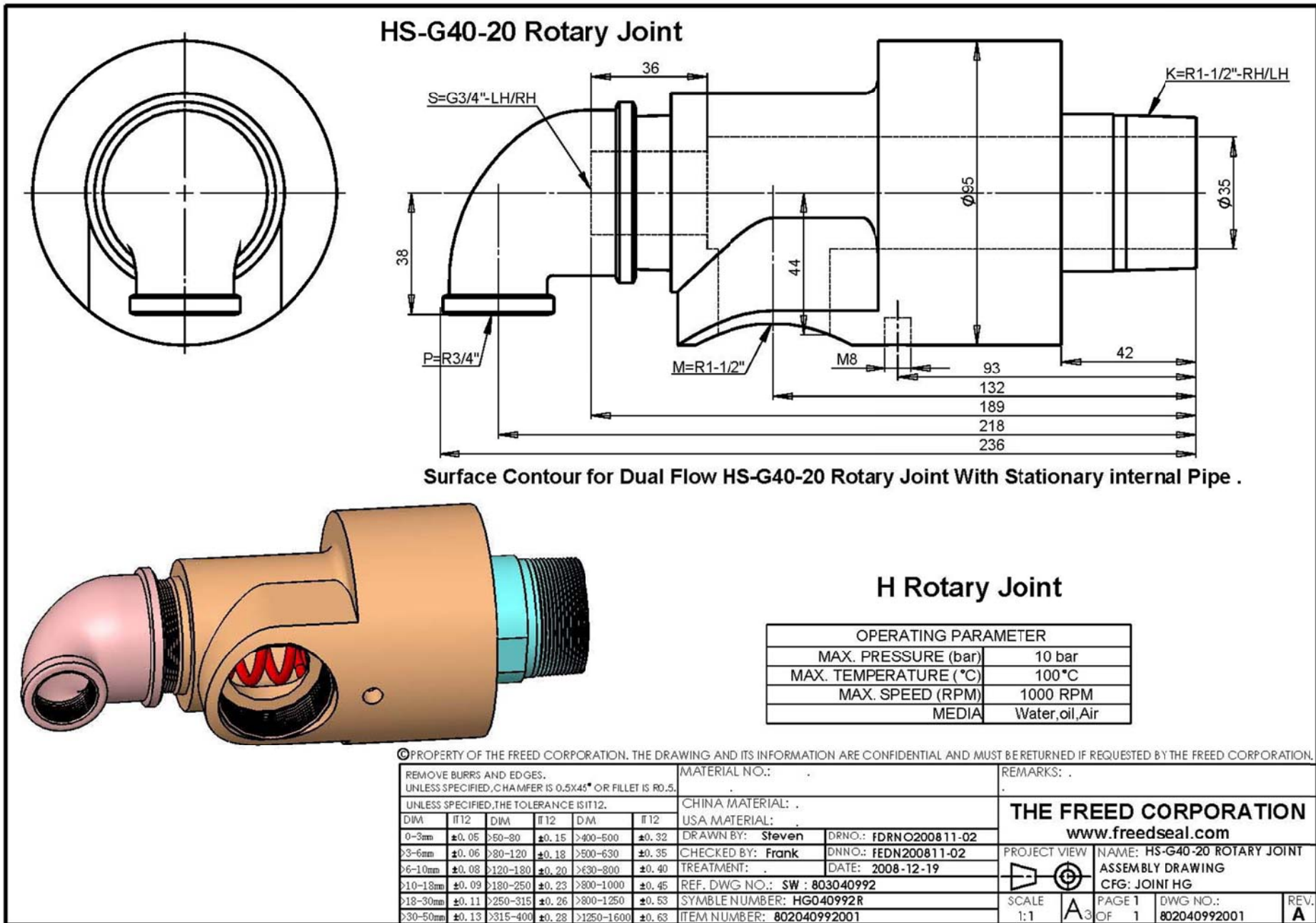
REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.  
UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>10-18mm	±0.09	>18-30mm	±0.11
>6-10mm	±0.08	>18-25mm	±0.13	>30-50mm	±0.13
>10-18mm	±0.09	>25-315	±0.20		
>18-30mm	±0.11	>315-400	±0.23		
>30-50mm	±0.13	>400-500	±0.15		
		>500-630	±0.18		
		>630-800	±0.20		
		>800-1000	±0.23		
		>1000-1250	±0.26		
		>1250-1600	±0.28		

MATERIAL NO.:  
CHINA MATERIAL:  
USA MATERIAL:  
DRAWN BY: Steven  
DRNO.: FDRNO200811-03  
CHECKED BY: Frank  
DNNO.: FEDN200811-03  
TREATMENT:  
DATE: 2008-12-19  
REF. DWG NO.: SW : 802032992400  
SYMBLE NUMBER: HG032992R  
ITEM NUMBER: 803032992402

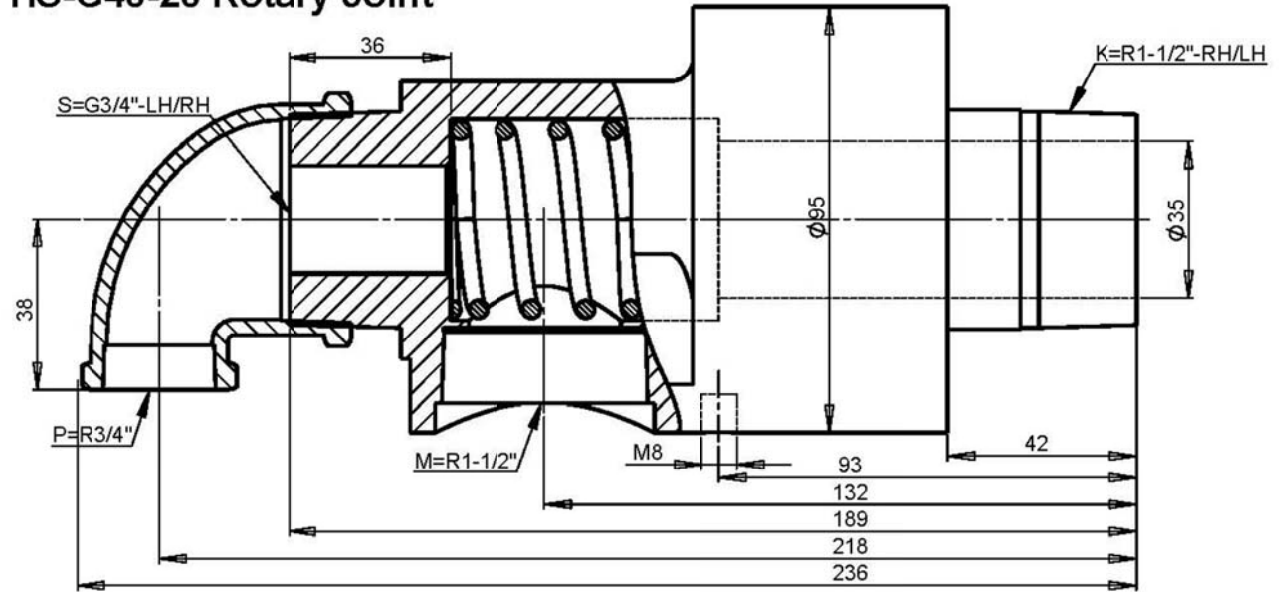
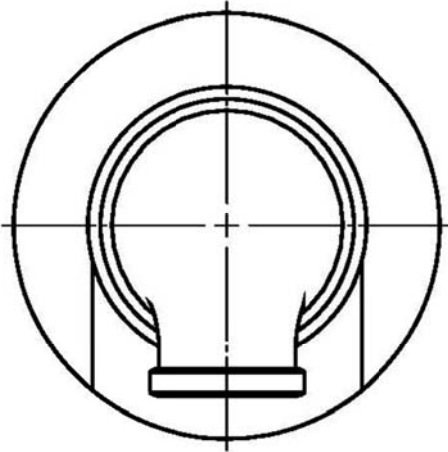
REMARKS:  
**THE FREED CORPORATION**  
www.freedseal.com  
PROJECT VIEW: NAME: HS-G32-15 ROTARY JOINT  
SURFACE DRAWING  
CFG: JOINT HG25  
SCALE: 1:1  
PAGE 1 OF 1  
DWG NO.: 802032992402  
REV. A

# The drawing of HSG40-20 Rotary Joint

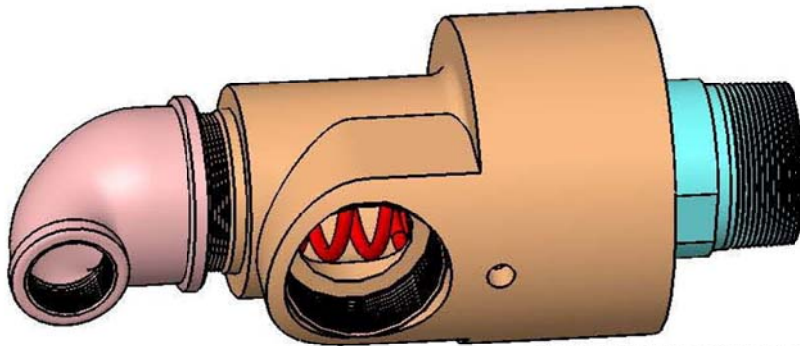


# The drawing of HSG40-20 Rotary Joint

## HS-G40-20 Rotary Joint



Surface Contour for Dual Flow HS-G40-20 Rotary Joint With Stationary internal Pipe .



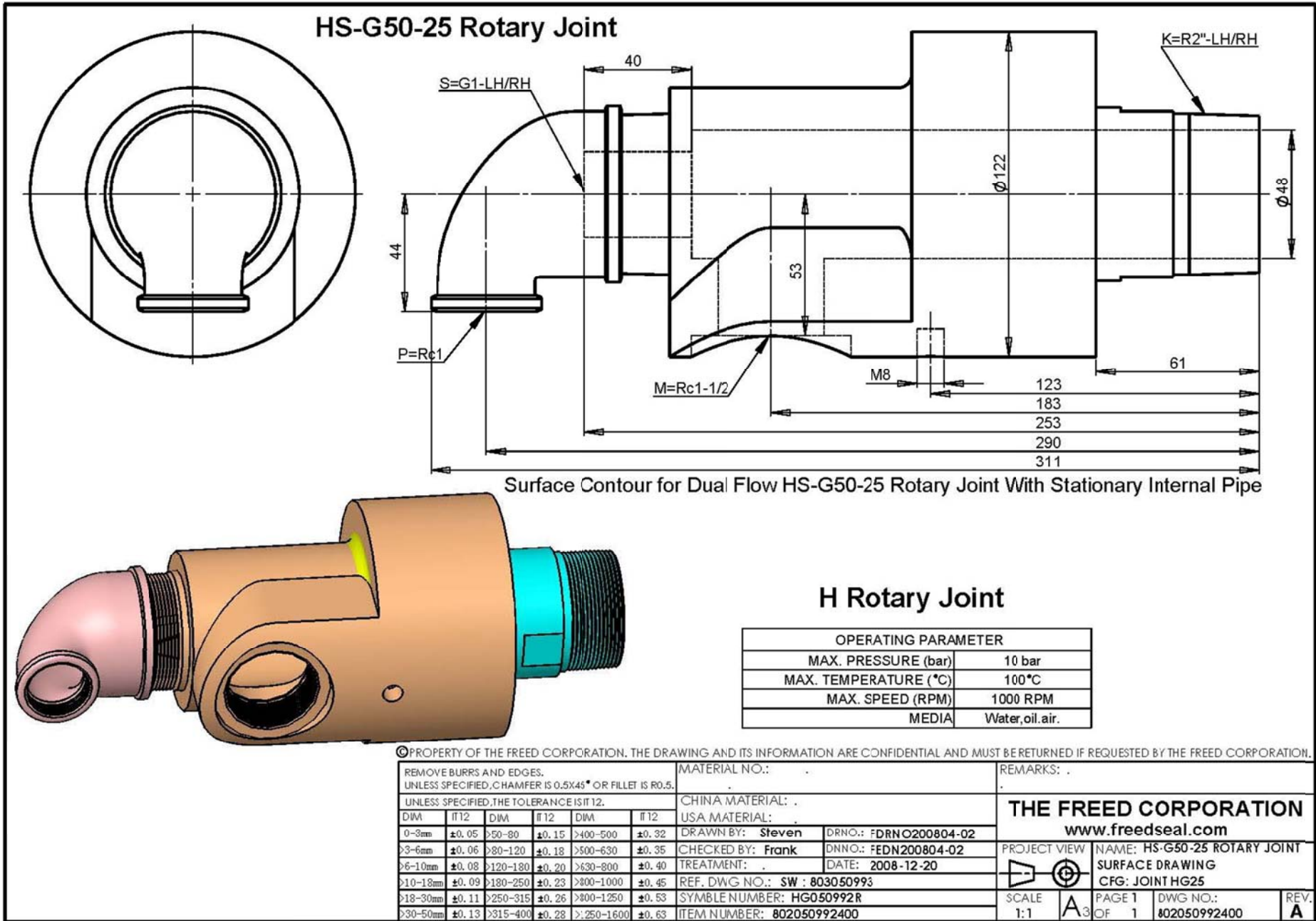
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,Air

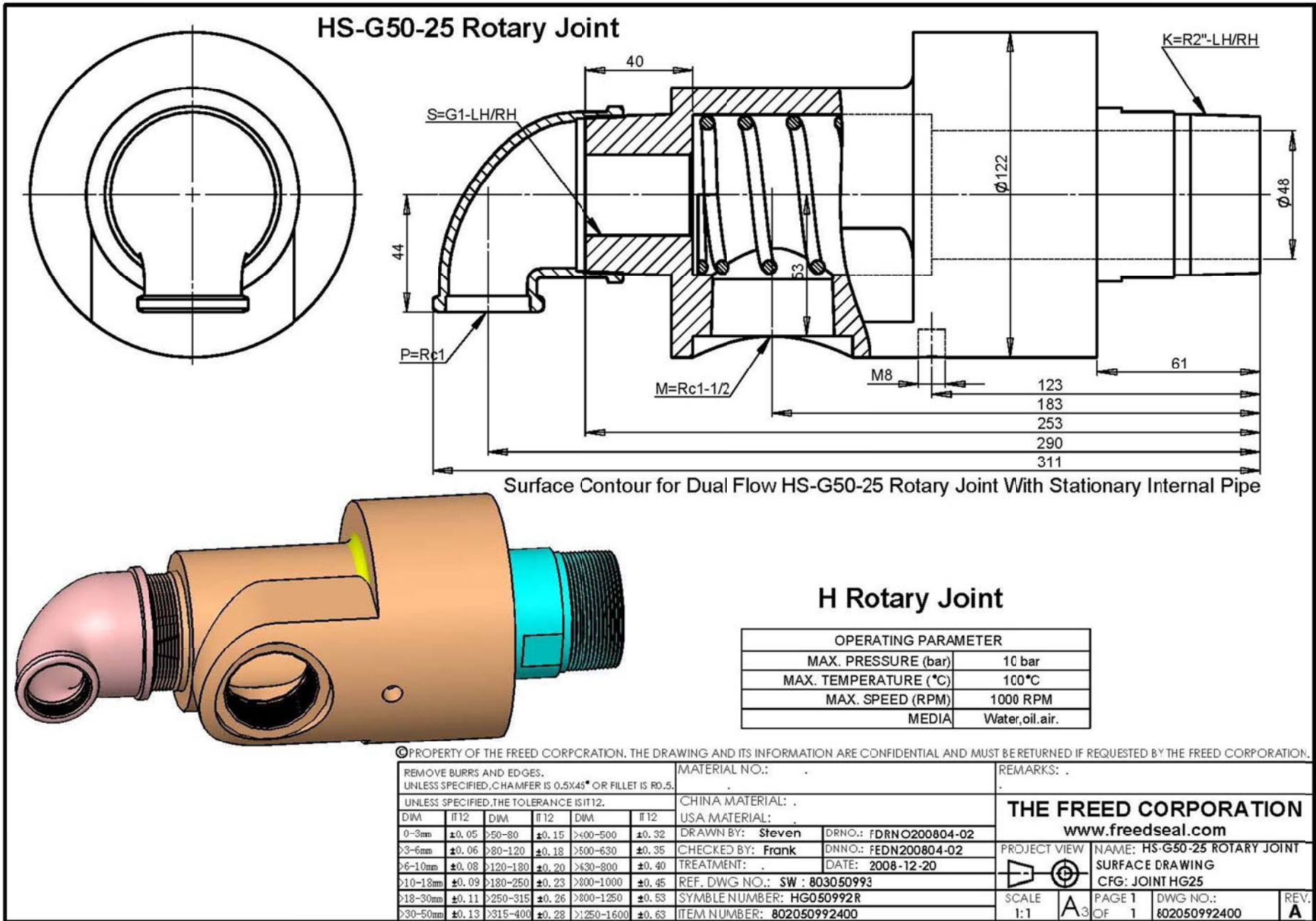
©PROPERTY OF THE FREED CORPORATION. THE DRAWING AND ITS INFORMATION ARE CONFIDENTIAL AND MUST BE RETURNED IF REQUESTED BY THE FREED CORPORATION.

REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:			
DIM	IT12	DIM	IT12	DIM	IT12	USA MATERIAL:		THE FREED CORPORATION	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	DRAWN BY: Steven		www.freedseal.com	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	DRNO.: FDRN0200811-02		PROJECT VIEW	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	CHECKED BY: Frank		NAME: HS-G40-20 ROTARY JOINT	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	TREATMENT:		ASSEMBLY DRAWING	
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>30-50mm	±0.13					REF. DWG NO.: SW : 803040992		SCALE	
						SYMBLE NUMBER: HG040992R		1:1	
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								REV. A	

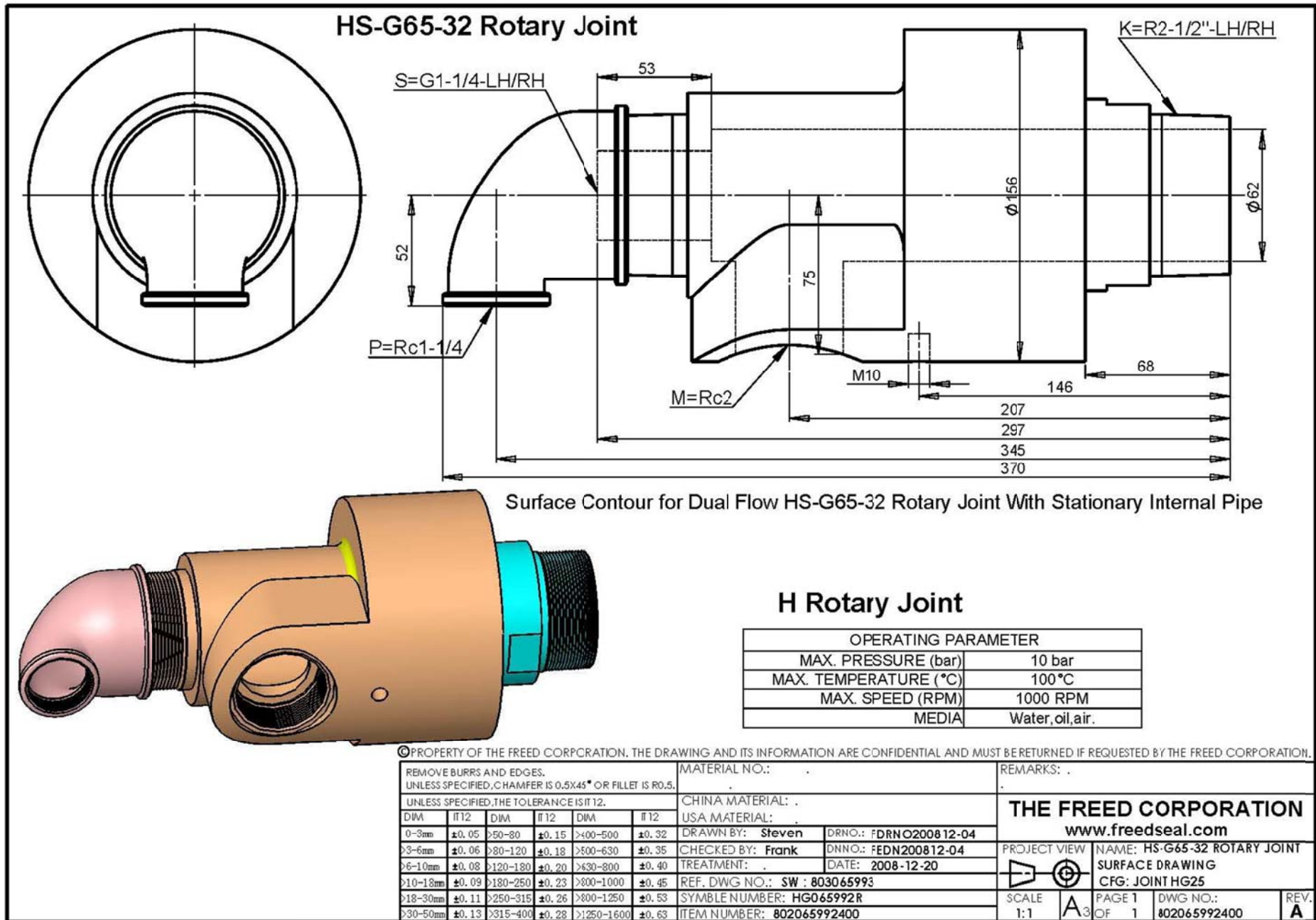
# The drawing of HSG50-25 Rotary Joint



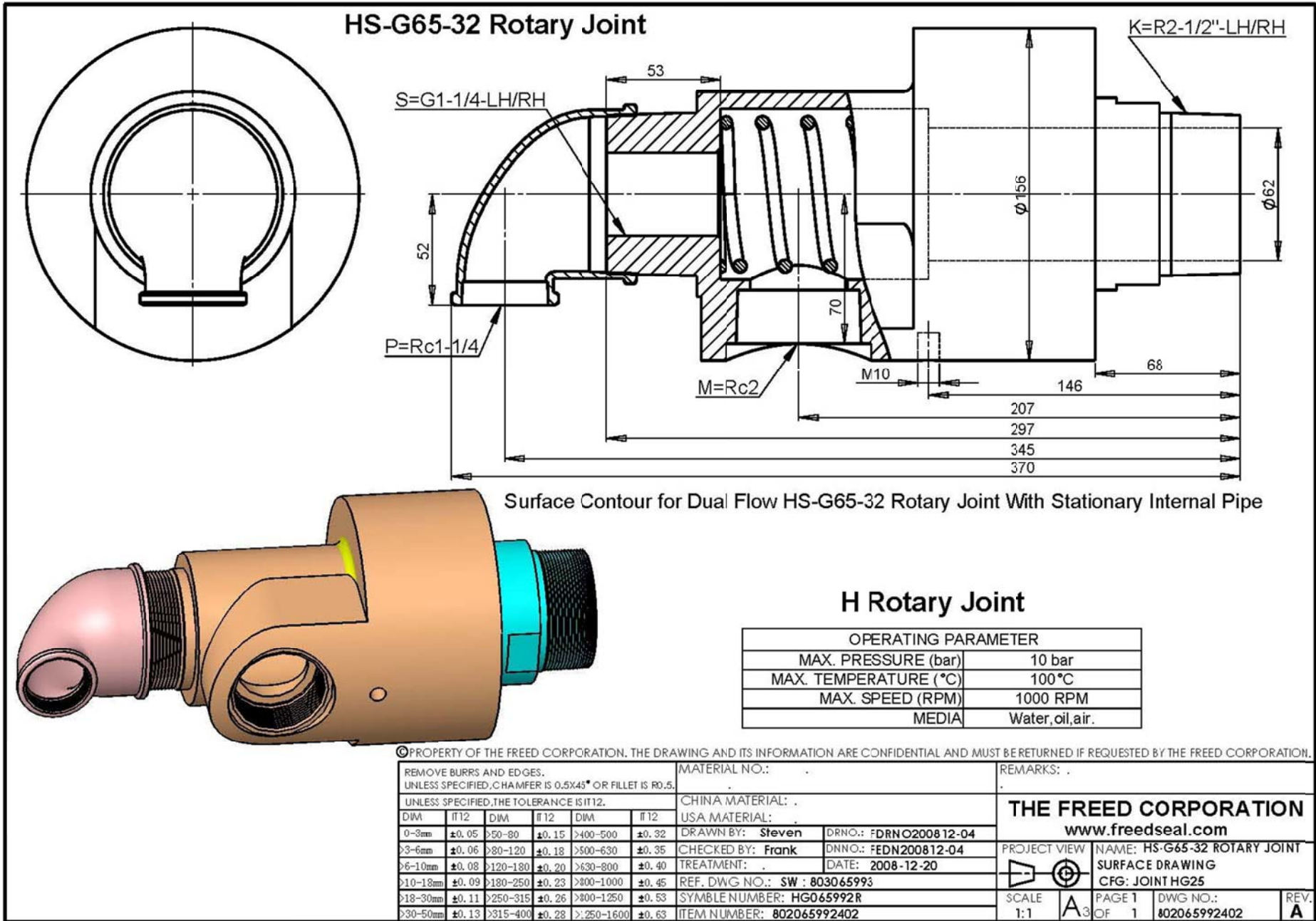
# The drawing of HSG50-25 Rotary Joint



# The drawing of HSG65-32 Rotary Joint

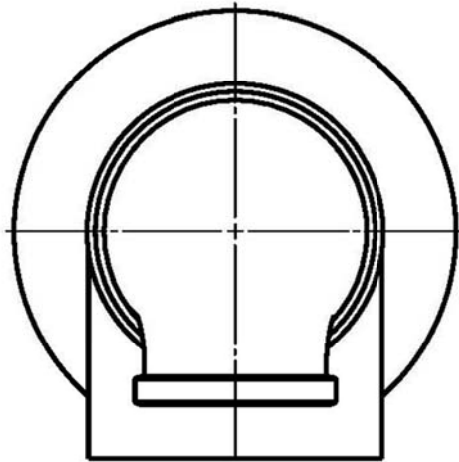


# The drawing of HSG65-32 Rotary Joint

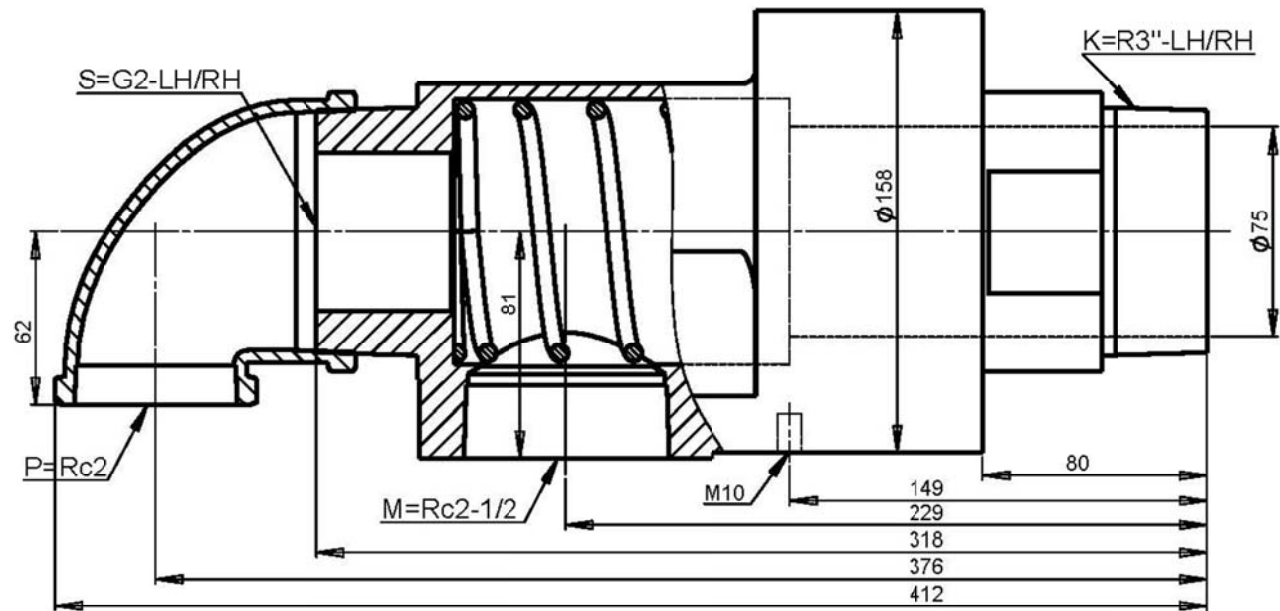




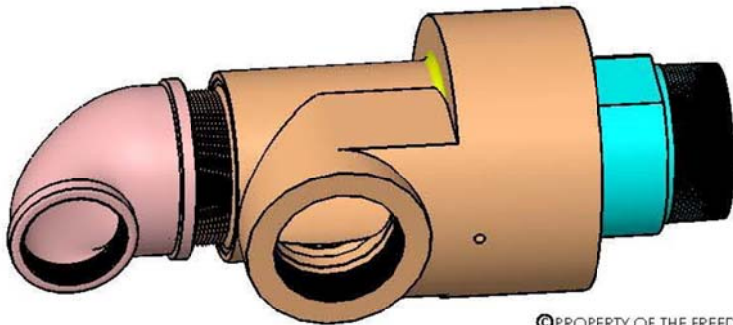
# The drawing of HSG80-50 Rotary Joint



HS-G80-50 Rotary Joint



Surface Contour for Dual Flow HS-G80-50 Rotary Joint With Stationary Internal Pipe



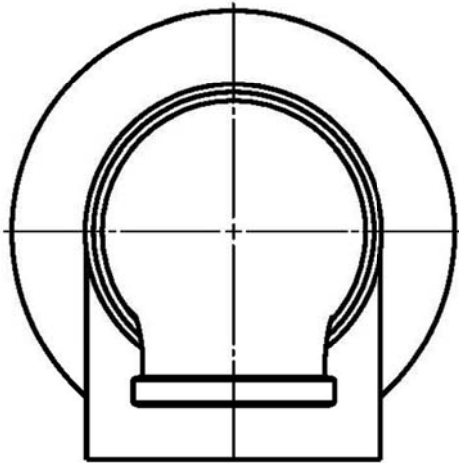
## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

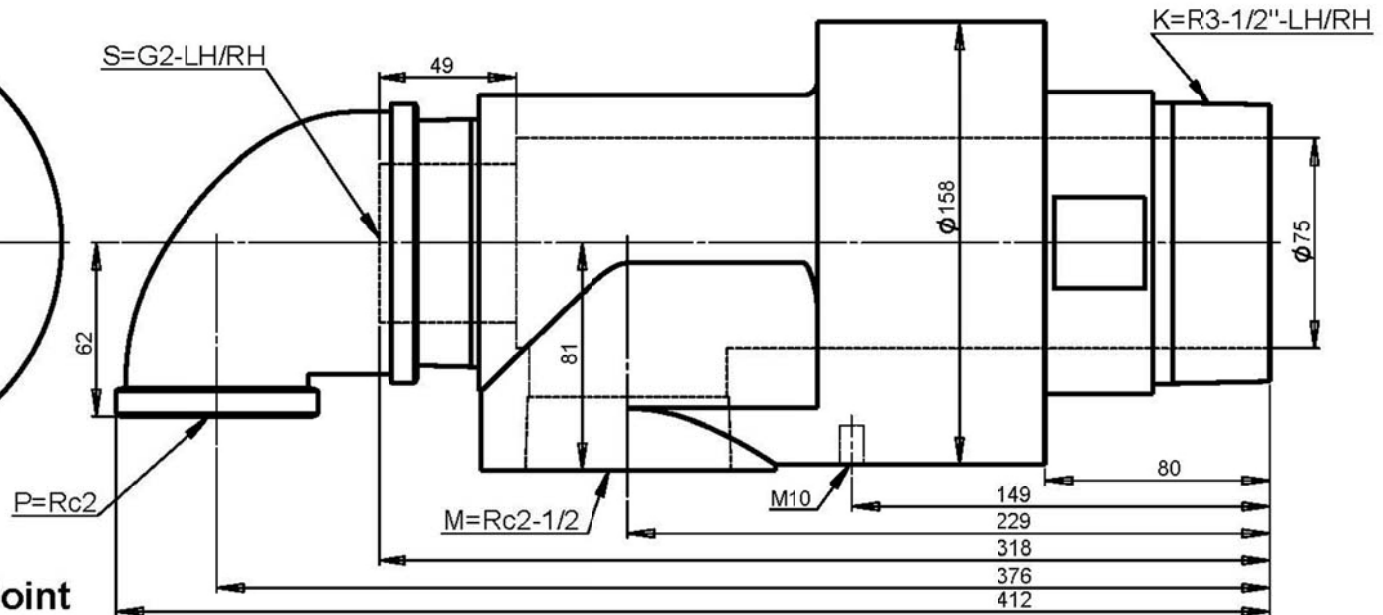
© PROPERTY OF THE FREED CORPORATION. THE DRAWING AND ITS INFORMATION ARE CONFIDENTIAL AND MUST BE RETURNED IF REQUESTED BY THE FREED CORPORATION.

REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:																																			
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:		<b>THE FREED CORPORATION</b> <a href="http://www.freedseal.com">www.freedseal.com</a>																																			
<table border="1"> <thead> <tr> <th>DIM</th> <th>IT12</th> <th>DIM</th> <th>IT12</th> <th>DIM</th> <th>IT12</th> </tr> </thead> <tbody> <tr> <td>0-3mm</td> <td>±0.05</td> <td>&gt;3-6mm</td> <td>±0.06</td> <td>&gt;6-10mm</td> <td>±0.08</td> </tr> <tr> <td>&gt;3-6mm</td> <td>±0.06</td> <td>&gt;6-10mm</td> <td>±0.08</td> <td>&gt;10-18mm</td> <td>±0.09</td> </tr> <tr> <td>&gt;6-10mm</td> <td>±0.08</td> <td>&gt;10-18mm</td> <td>±0.09</td> <td>&gt;18-30mm</td> <td>±0.11</td> </tr> <tr> <td>&gt;10-18mm</td> <td>±0.09</td> <td>&gt;18-30mm</td> <td>±0.11</td> <td>&gt;30-50mm</td> <td>±0.13</td> </tr> <tr> <td>&gt;18-30mm</td> <td>±0.11</td> <td>&gt;30-50mm</td> <td>±0.13</td> <td></td> <td></td> </tr> </tbody> </table>						DIM	IT12			DIM	IT12	DIM	IT12	0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	>18-30mm	±0.11	>30-50mm	±0.13		
DIM	IT12	DIM	IT12	DIM	IT12																																						
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08																																						
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09																																						
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>18-30mm	±0.11	>30-50mm	±0.13																																								
DRAWN BY: Steven						DRNO.: FDRN0201204-02		PROJECT VIEW																																			
CHECKED BY: Frank						DNNNO.: FEDN201204-02		NAME: HS-G80-50 ROTARY JOINT																																			
TREATMENT:						DATE: 2012-4-17		SURFACE DRAWING																																			
REF. DWG NO.: SW : 803080992						SYMBLE NUMBER: HG080992R		CFG: JOINT HG80																																			
ITEM NUMBER: 802080992400						SCALE 1:1		PAGE 1 OF 1																																			
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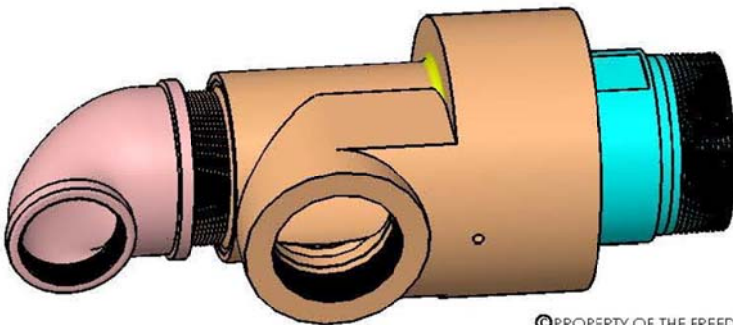
# The drawing of HSG90-50 Rotary Joint



HS-G90-50 Rotary Joint



Surface Contour for Dual Flow HS-G90-50 Rotary Joint With Stationary Internal Pipe



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

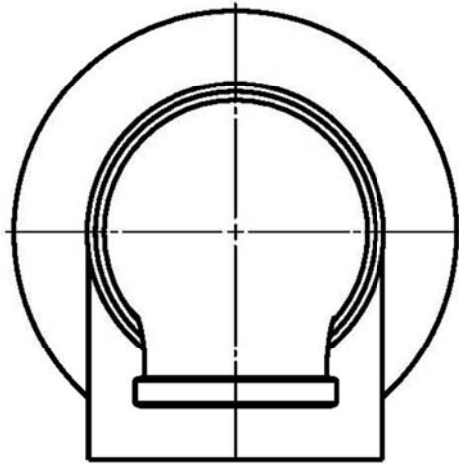
DIM	IT12	DIM	IT12	D/M	IT12
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>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>3-6mm	±0.15	>6-10mm	±0.20	>10-18mm	±0.23
>6-10mm	±0.15	>10-18mm	±0.20	>18-30mm	±0.26
>10-18mm	±0.15	>18-30mm	±0.20	>30-50mm	±0.28
>3-6mm	±0.32	>6-10mm	±0.40	>10-18mm	±0.45
>6-10mm	±0.32	>10-18mm	±0.40	>18-30mm	±0.53
>10-18mm	±0.32	>18-30mm	±0.40	>30-50mm	±0.63

MATERIAL NO.:		REMARKS:	
CHINA MATERIAL:			
USA MATERIAL:			
DRAWN BY: Steven	DRNO.: FDRNO201204-02		
CHECKED BY: Frank	DNNO.: FEDN201204-02		
TREATMENT:	DATE: 2012-4-17		
REF. DWG NO.: SW : 803080992			
SYMBLE NUMBER: HG090992R			
ITEM NUMBER: 802090992400			

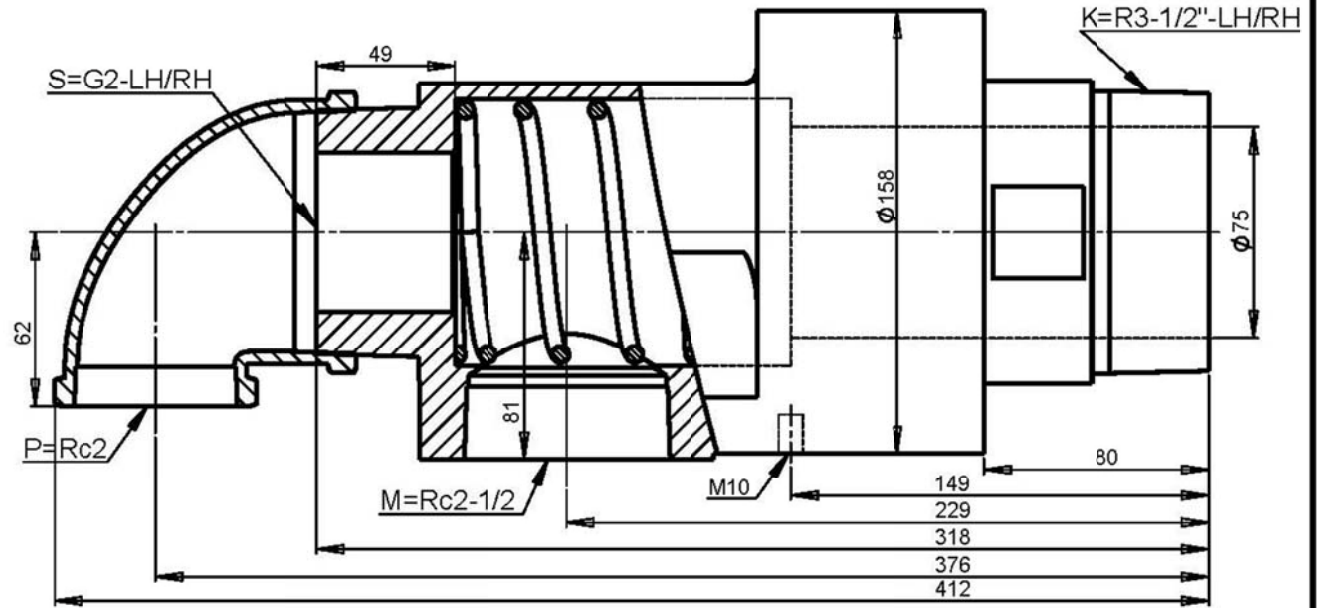
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PROJECT VIEW	NAME: HS-G90-50 ROTARY JOINT
	SURFACE DRAWING
	CFG: JOINT H90
SCALE 1:1	PAGE 1 OF 1
	DWG NO.: 802090992400
	REV. A

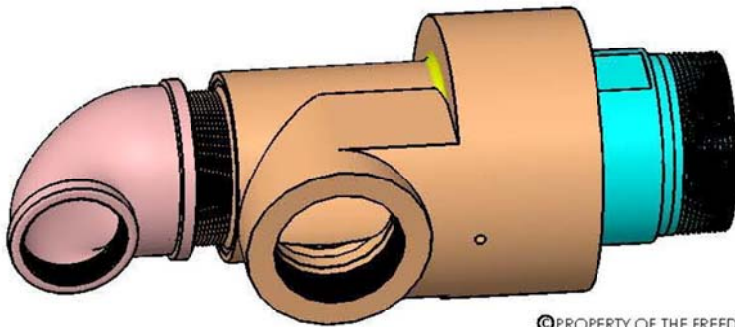
# The drawing of HSG90-50 Rotary Joint



HS-G90-50 Rotary Joint



Surface Contour for Dual Flow HS-G90-50 Rotary Joint With Stationary Internal Pipe



## H Rotary Joint

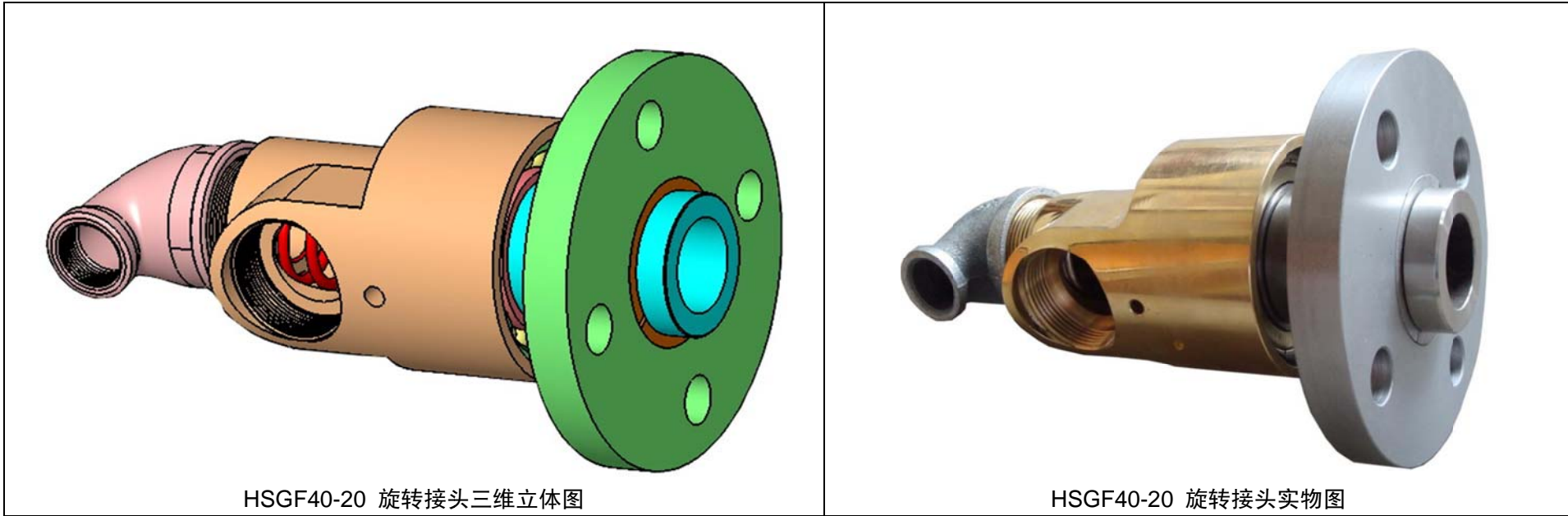
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

© PROPERTY OF THE FREED CORP. THE DRAWING AND ITS INFORMATION ARE CONFIDENTIAL AND MUST BE RETURNED IF REQUESTED BY THE FREED CORPORATION.

REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:		USA MATERIAL:	
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven	DRNO.: FDRN0201204-02	PROJECT VIEW	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	CHECKED BY: Frank	DNNO.: FEDN201204-02	NAME: HS-G90-50 ROTARY JOINT	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	TREATMENT:	DATE: 2012-4-17	SURFACE DRAWING	
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11	REF. DWG NO.: SW : 803080992	SCALE 1:1	CFG: JOINT H90	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	SYMBLE NUMBER: HG090992R	A3	PAGE 1 OF 1	DWG NO.: 802090992402
>18-30mm	±0.11	>30-50mm	±0.13			ITEM NUMBER: 802090992402			REV. A
>30-50mm	±0.13								

# HSGF Rotary Joint

Type HSGF dual flow, fixed internal pipe, rotary joint with quick release flanged nipple

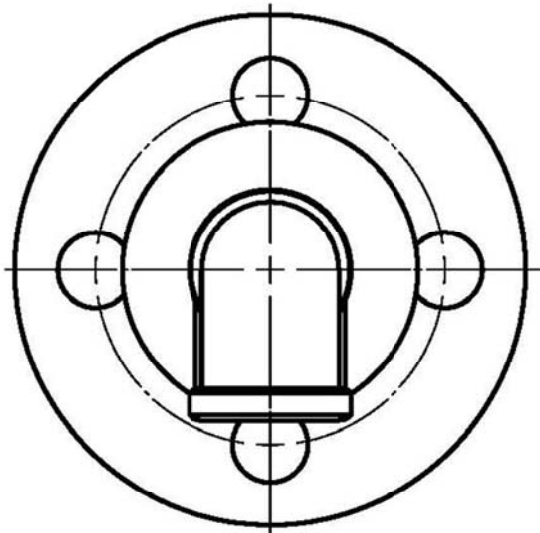


HSGF40-20 旋转接头三维立体图

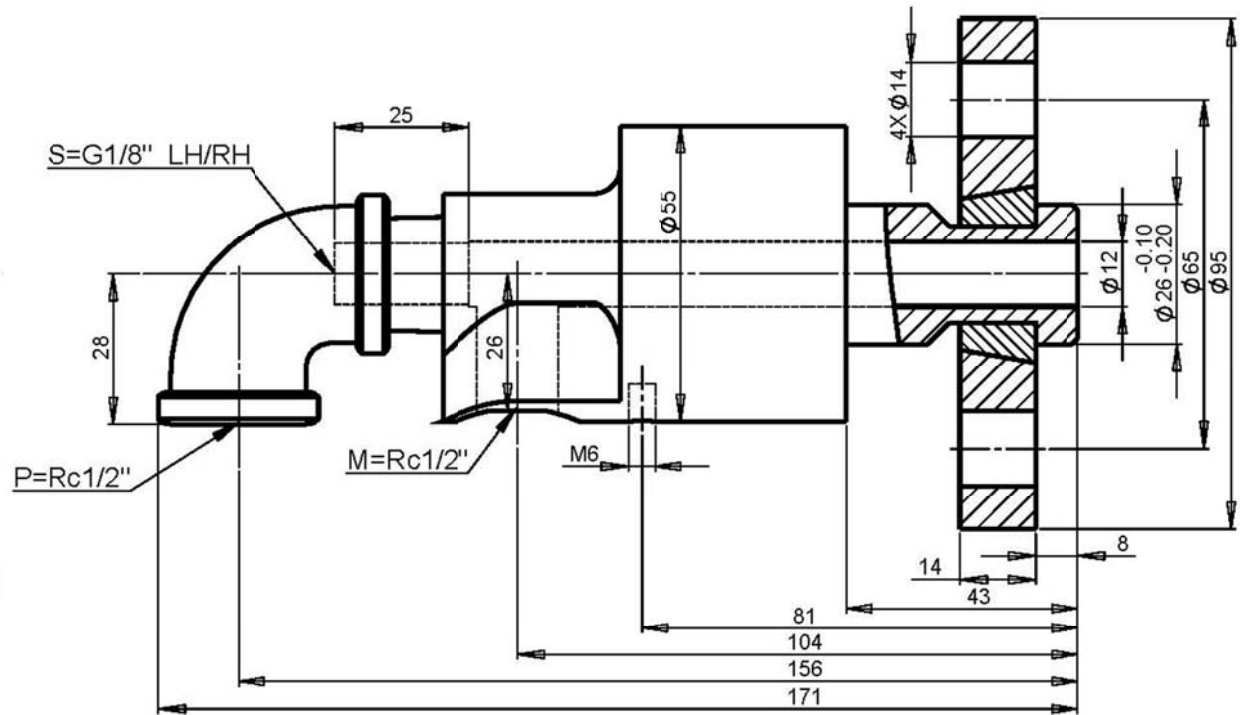
HSGF40-20 旋转接头实物图

Type HSGF dual flow, fixed internal pipe, rotary joint with quick release flanged nipple

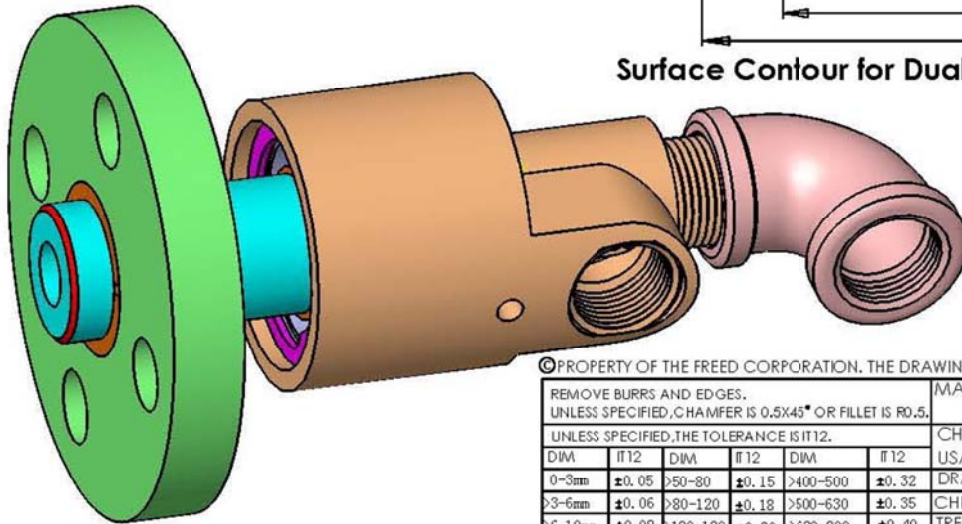
# The drawing of HSGF15-6 Rotary Joint



**HS-GF15-6 Rotary Joint**



**Surface Contour for Dual Flow HS-GF15-6 Rotary Joint With Stationary internal Pipe .**



**H Rotary Joint**

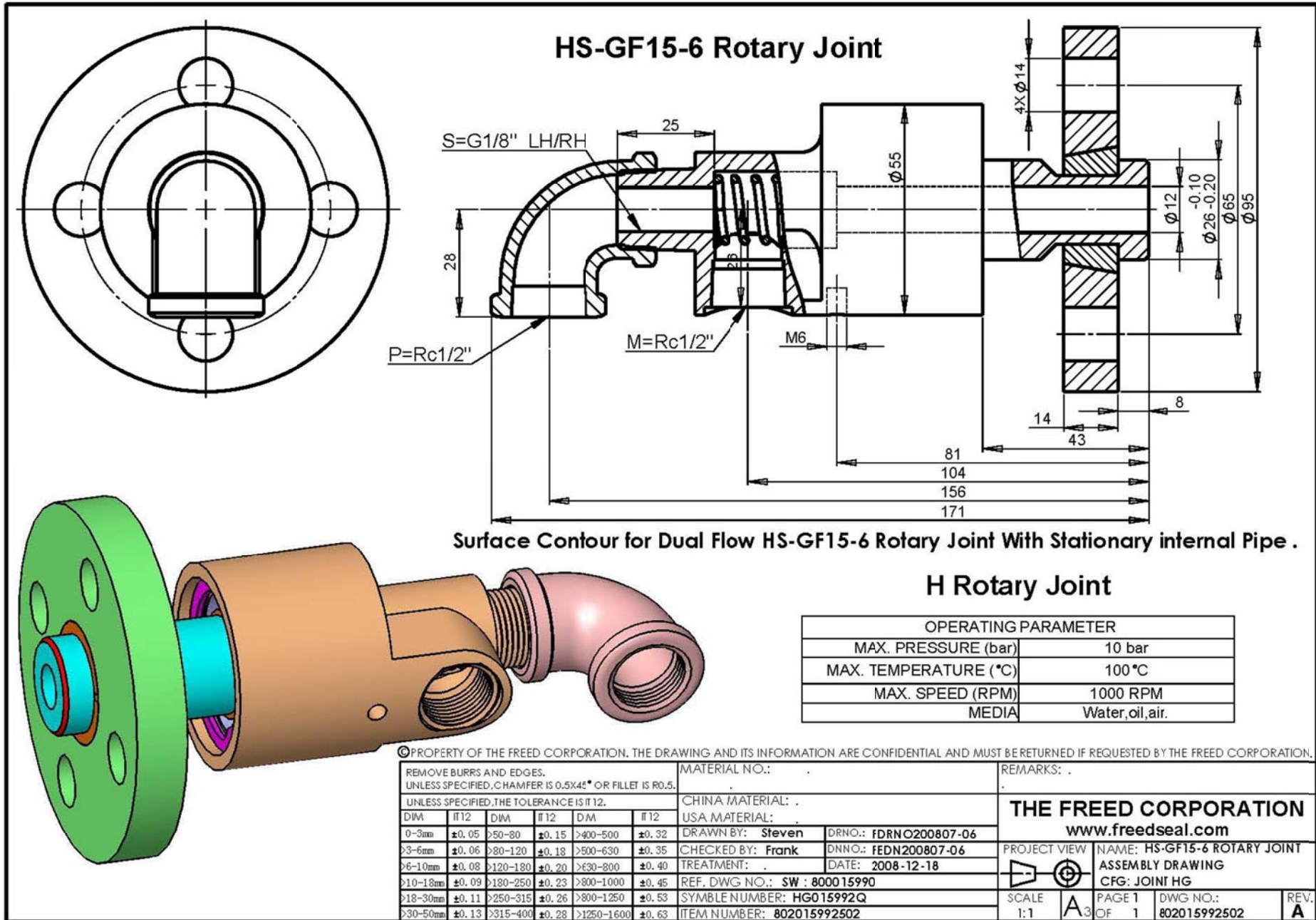
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,oil,air.

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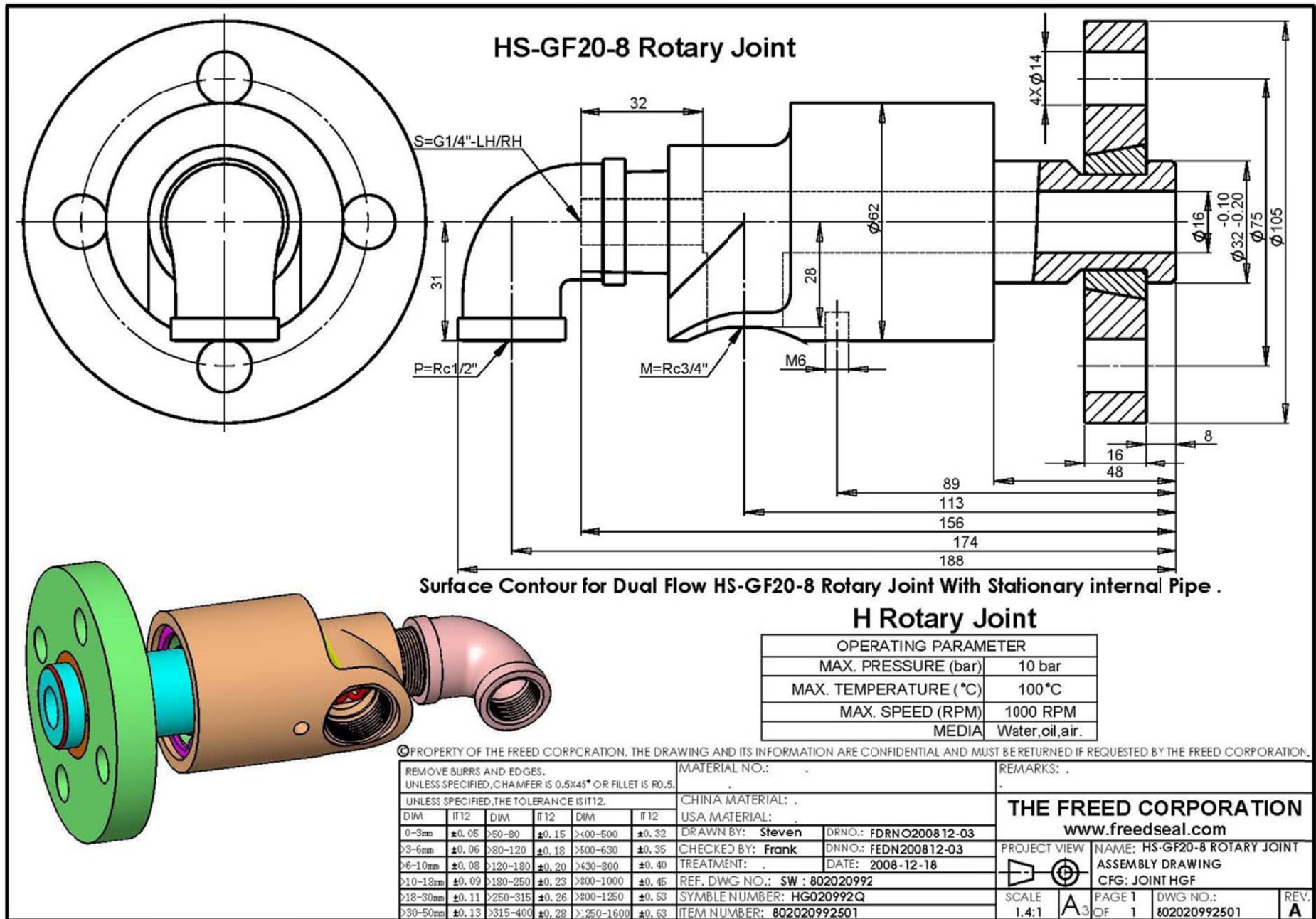
REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:		USA MATERIAL:	
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven		DRNO.: FDRN0200807-06	
0-5mm	±0.05	>50-80	±0.15	>400-500	±0.32	CHECKED BY: Frank		DNNO.: FEDN200807-06	
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	TREATMENT:		DATE: 2008-12-18	
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40	REF. DWG NO.: SW : 800015990			
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	SYMBLE NUMBER: HG015992Q			
>18-30mm	±0.11	>250-315	±0.26	>800-1250	±0.53	ITEM NUMBER: 802015992501			
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63				
						PROJECT VIEW		NAME: HS-GF15-6 ROTARY JOINT	
						SCALE 1:1		ASSEMBLY DRAWING	
						PAGE 1 OF 1		CFG: JOINT HG	
						DWG NO.: 802015992501		REV. A	

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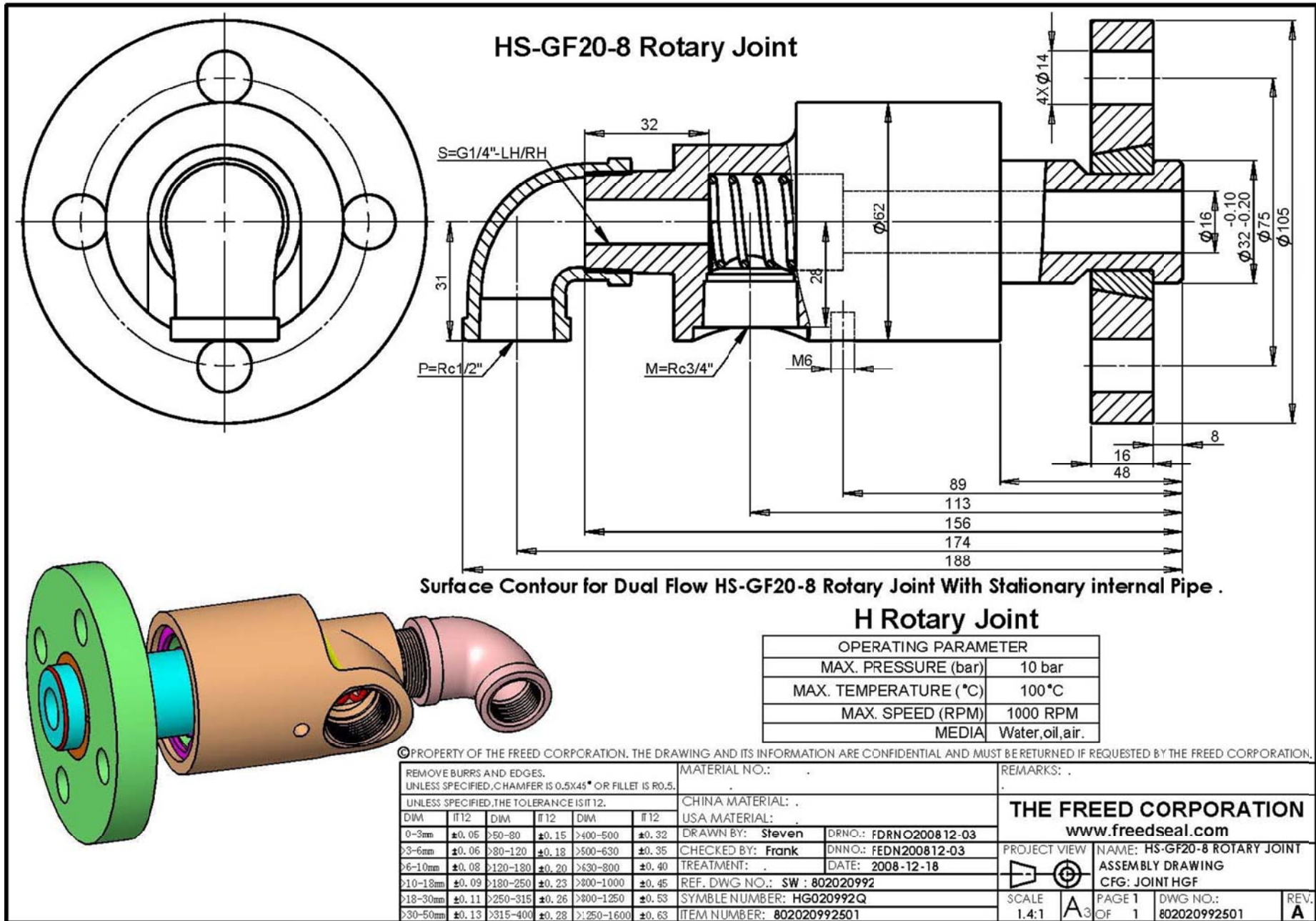
# The drawing of HSGF15-6 Rotary Joint



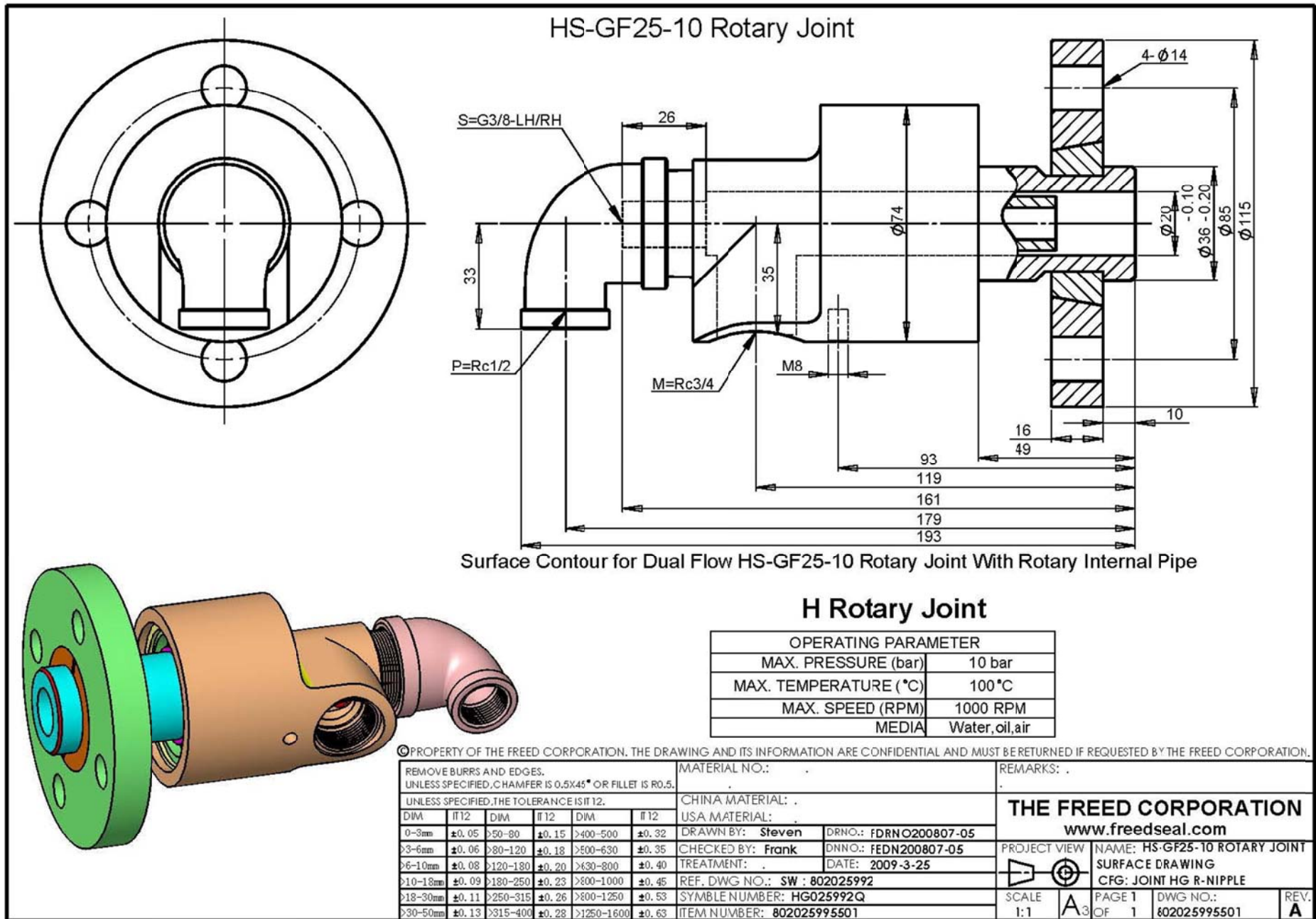
# The drawing of HSGF20-8 Rotary Joint



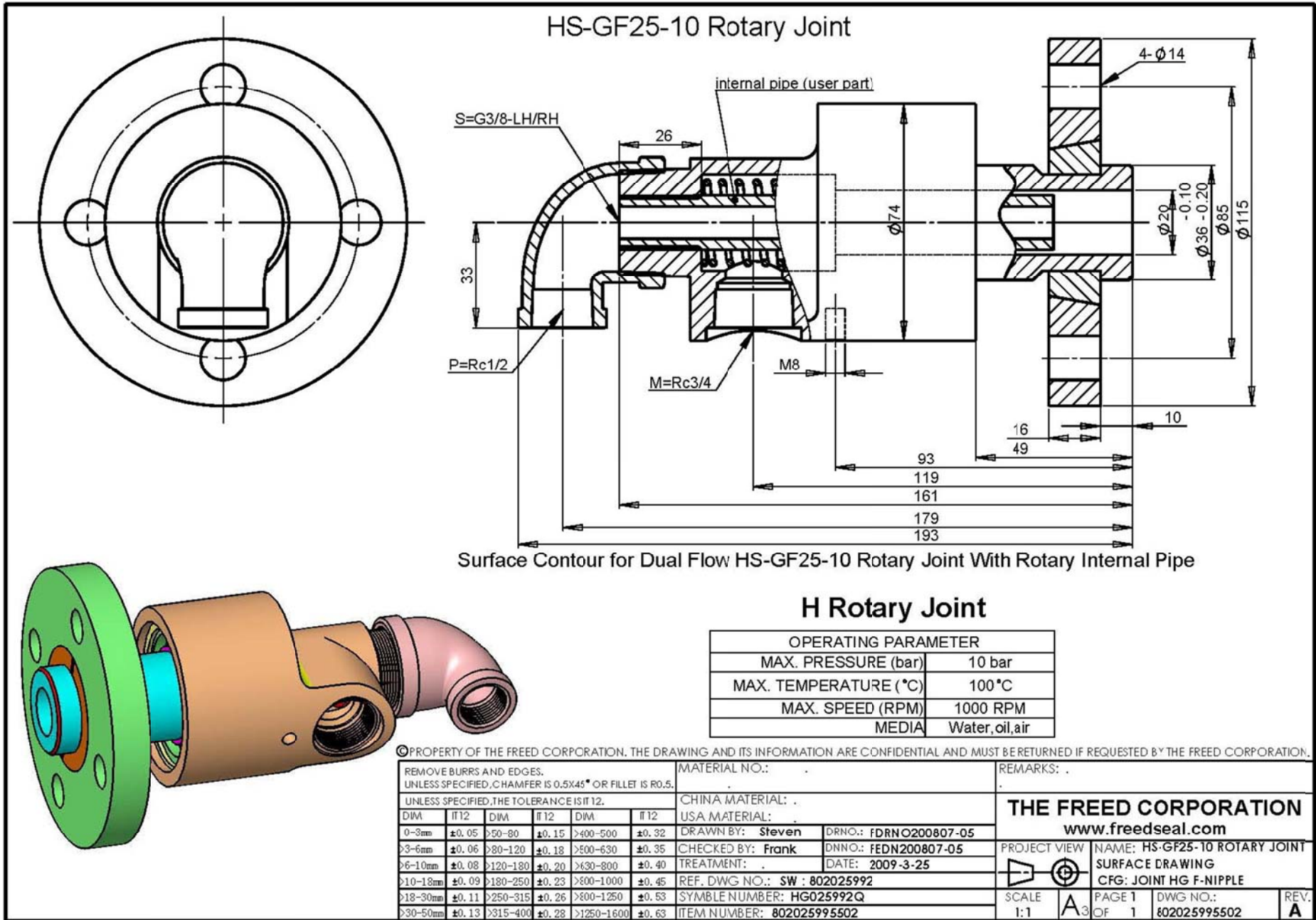
# The drawing of HSGF20-8 Rotary Joint



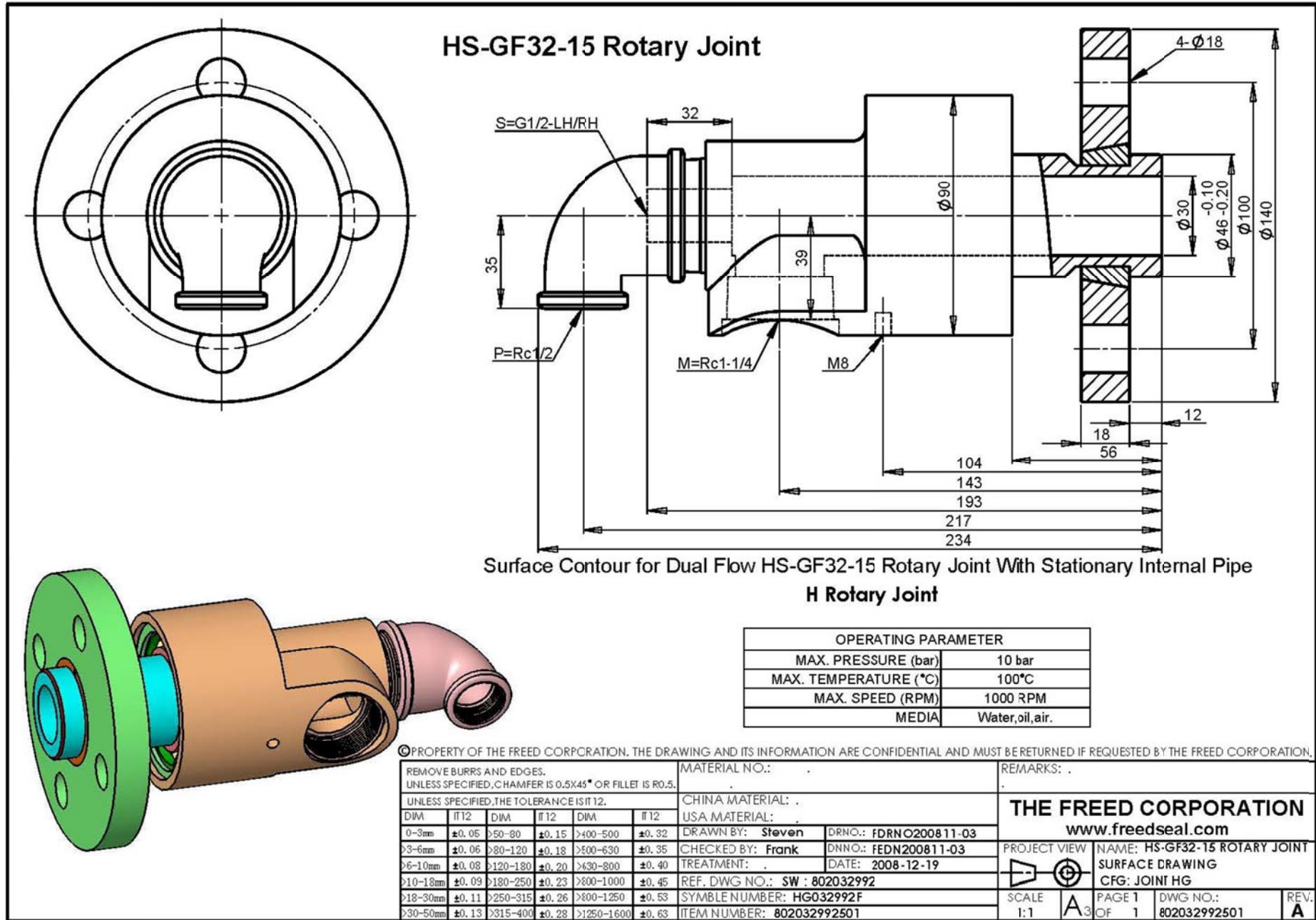
# The drawing of HSGF25-10 Rotary Joint



# The drawing of HSGF25-10 Rotary Joint

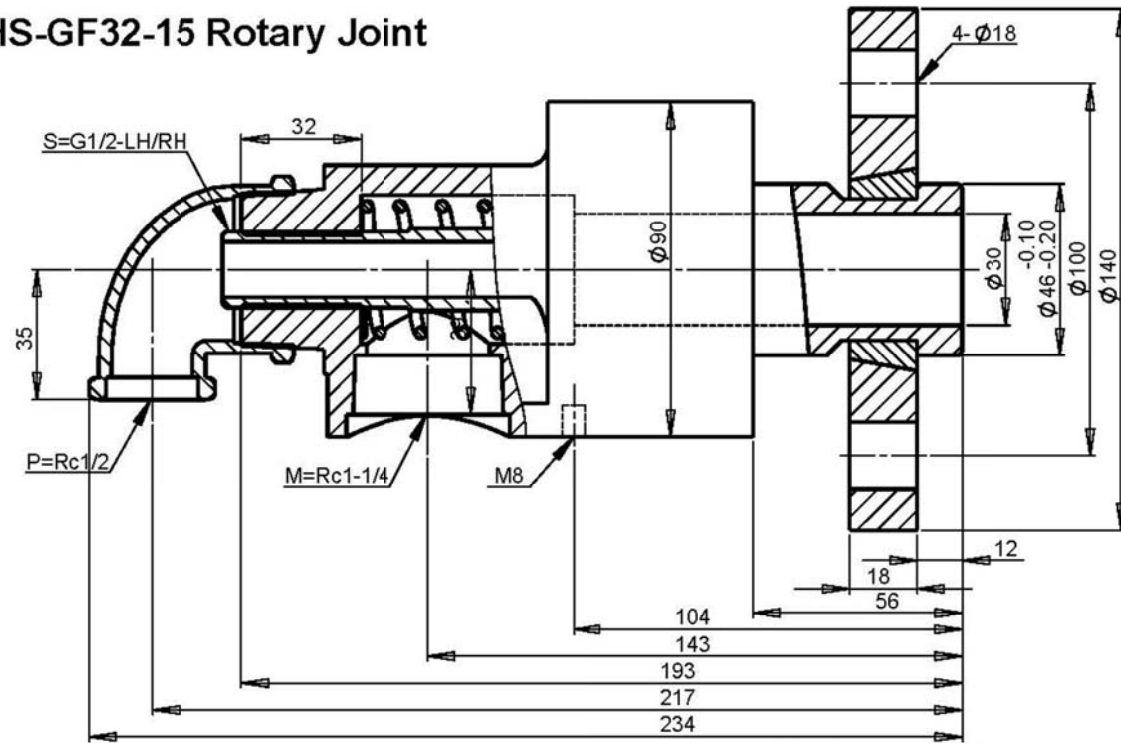
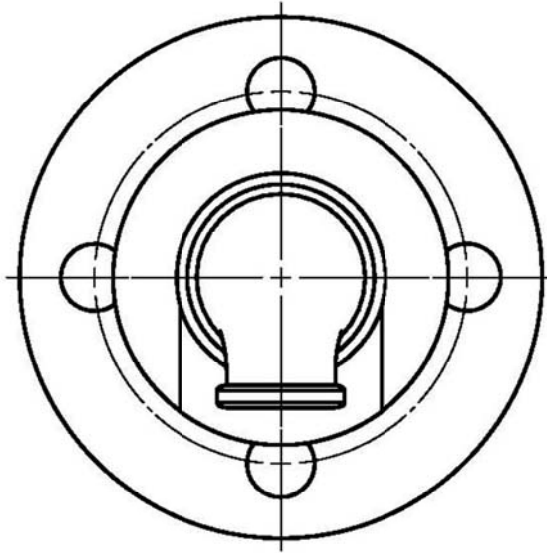


# The drawing of HSGF32-15 Rotary Joint

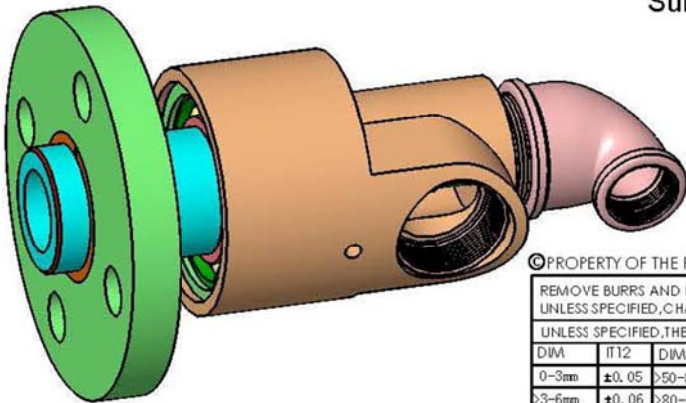


# The drawing of HSGF32-15 Rotary Joint

## HS-GF32-15 Rotary Joint



Surface Contour for Dual Flow HS-GF32-15 Rotary Joint With Stationary Internal Pipe  
H Rotary Joint



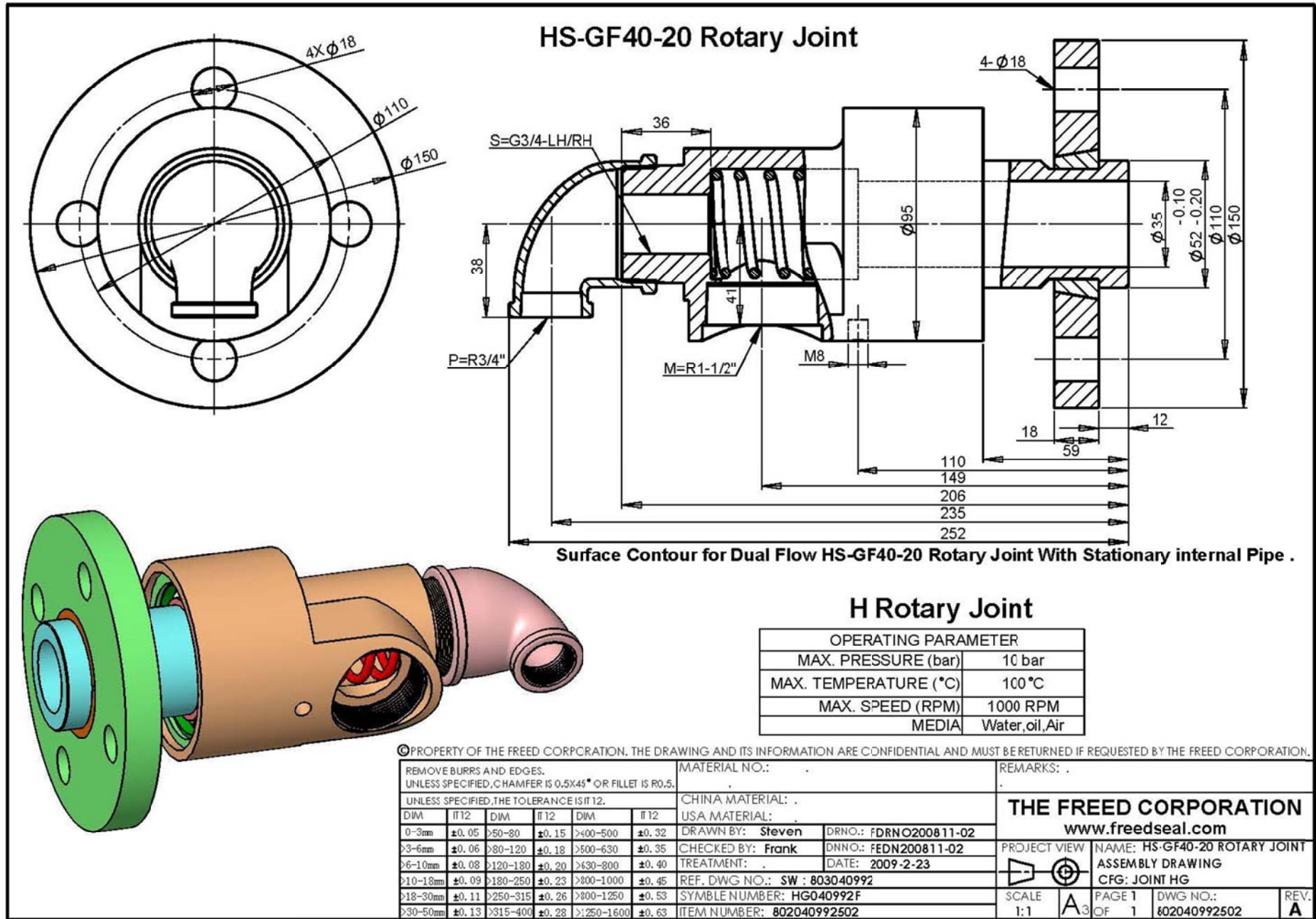
OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.

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REMOVE BURRS AND EDGES. UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.						MATERIAL NO.:		REMARKS:	
UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL:		THE FREED CORPORATION	
						USA MATERIAL:		www.freedseal.com	
DIM	IT12	DIM	IT12	DIM	IT12	DRAWN BY: Steven	DRNO.: FDRNO200811-03	PROJECT VIEW	NAME: HS-GF32-15 ROTARY JOINT
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32	CHECKED BY: Frank	DNNO.: FEDN200811-03		SURFACE DRAWING
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35	TREATMENT:	DATE: 2008-12-19		CFG: JOINT HG
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40	REF. DWG NO.: SW : 802032992	SYMBLE NUMBER: HG032992F	SCALE	PAGE 1
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45	ITEM NUMBER: 802032992502		1:1	OF 1
>18-30mm	±0.11	>250-315	±0.26	>800-1250	±0.53			A3	DWG NO.: 802032992502
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63				REV. A

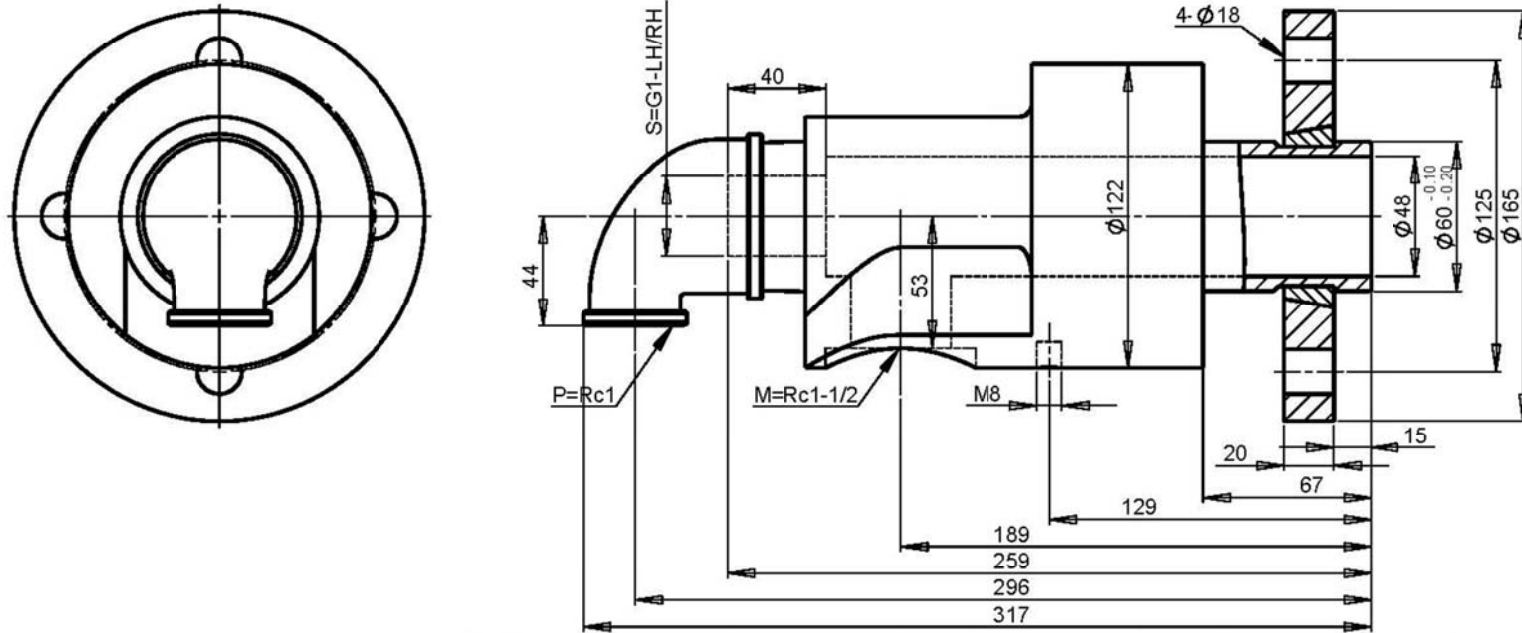


# The drawing of HSGF40-20 Rotary Joint

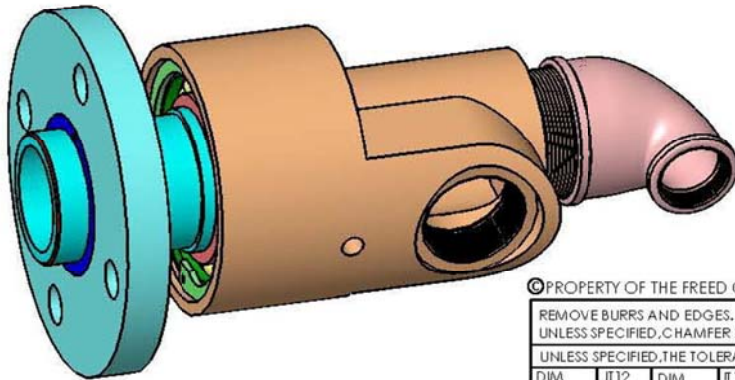


# The drawing of HSGF50-25 Rotary Joint

## HS-GF50-25 Rotary Joint



Surface Contour for Dual Flow HS-GF50-25 Rotary Joint With Stationary internal Pipe .



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, air, oil

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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

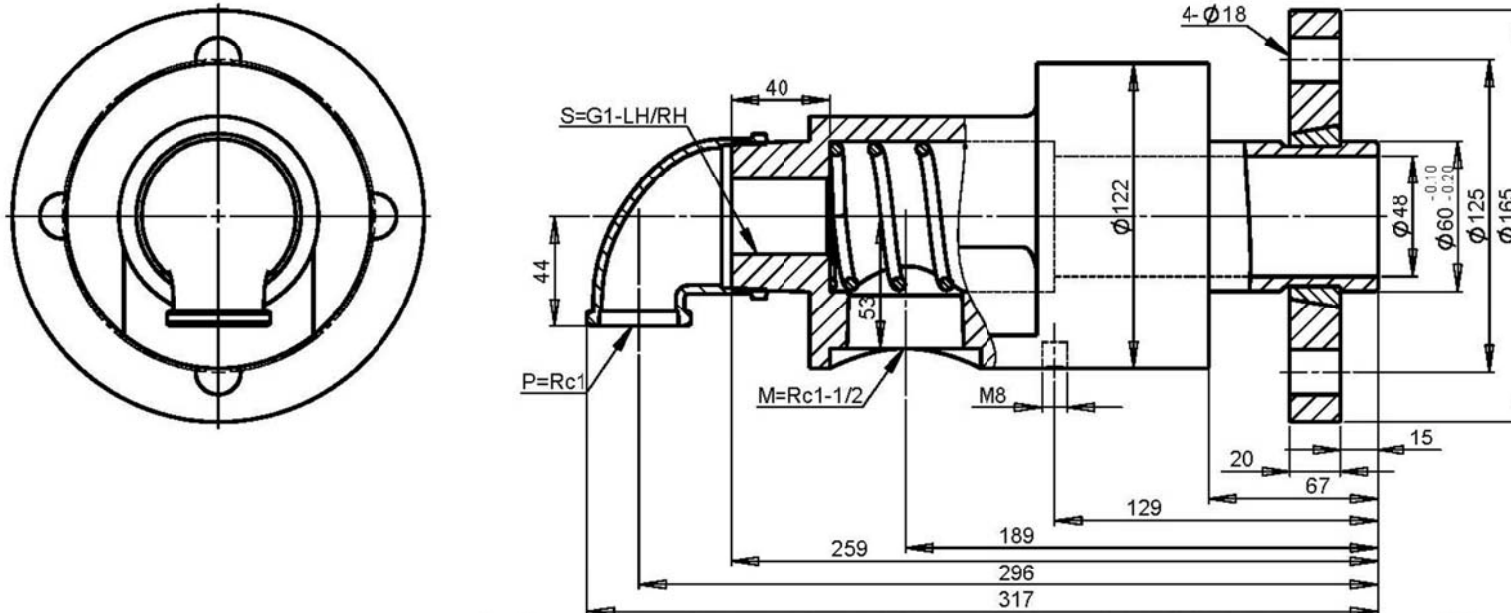
DIM	IT12	DIM	IT12	D/M	IT12
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.09	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>3-6mm	±0.15	>6-10mm	±0.20	>10-18mm	±0.23
>6-10mm	±0.15	>10-18mm	±0.20	>18-30mm	±0.26
>10-18mm	±0.15	>18-30mm	±0.23	>30-50mm	±0.28
>3-6mm	±0.32	>6-10mm	±0.40	>10-18mm	±0.45
>6-10mm	±0.32	>10-18mm	±0.40	>18-30mm	±0.53
>10-18mm	±0.32	>18-30mm	±0.40	>30-50mm	±0.63

MATERIAL NO.:	
CHINA MATERIAL:	
USA MATERIAL:	
DRAWN BY: Steven	DRNO.: FDRNO200804-02
CHECKED BY: Frank	DNNNO.: FEDN200804-02
TREATMENT:	DATE: 2009-3-10
REF. DWG NO.:	SW : 803050993
SYMBLE NUMBER:	HG050992F
ITEM NUMBER:	802050992501

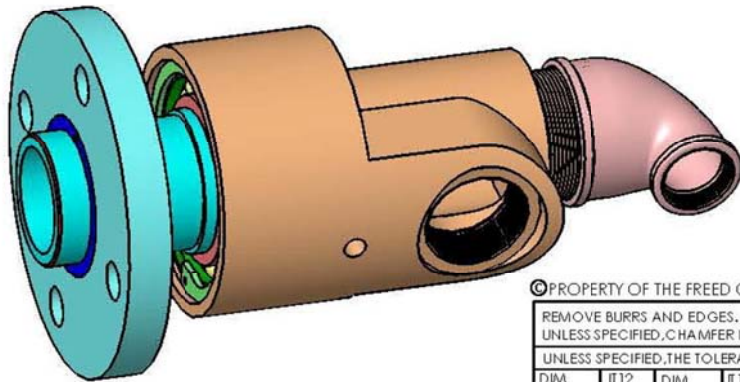
REMARKS:	
<b>THE FREED CORPORATION</b> www.freedseal.com	
PROJECT VIEW	NAME: HS-GF50-25 ROTARY JOINT
	SURFACE DRAWING
	CFG: JOINT HG Q-FLANGE ASM
SCALE	PAGE 1
1:1	OF 1
	DWG NO.:
	802050992501
	REV.
	<b>A</b>

# The drawing of HSGF50-25 Rotary Joint

## HS-GF50-25 Rotary Joint



Surface Contour for Dual Flow HS-GF50-25 Rotary Joint With Stationary internal Pipe .



## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100 °C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, air, oil

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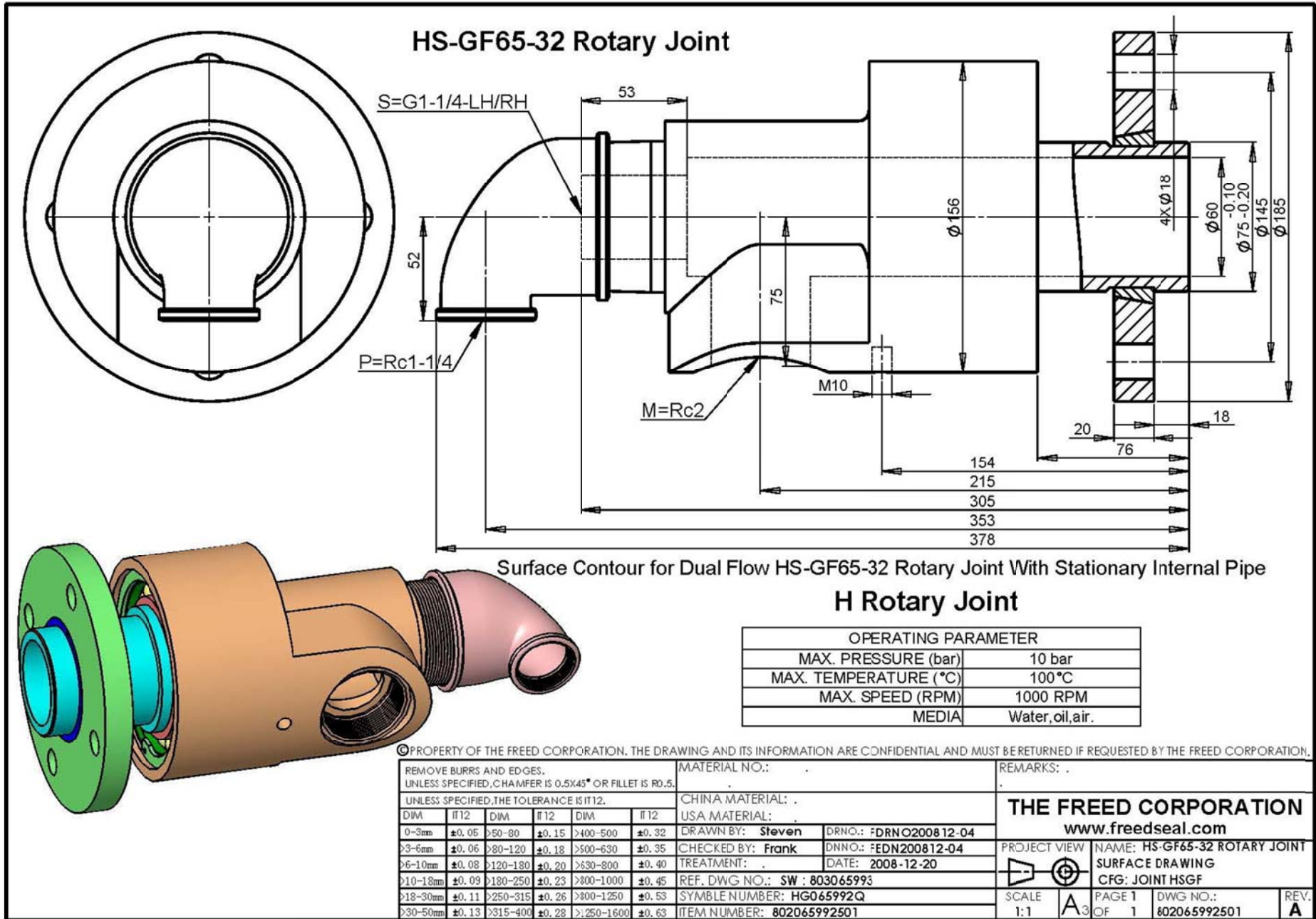
UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
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>3-6mm	±0.05	>6-10mm	±0.06	>10-18mm	±0.09
>6-10mm	±0.08	>10-18mm	±0.11	>18-30mm	±0.11
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13
>18-30mm	±0.11	>30-50mm	±0.13		

MATERIAL NO.:		REMARKS:	
CHINA MATERIAL:			
USA MATERIAL:			
DRAWN BY: Steven	DRNO.: FDRNO200804-02		
CHECKED BY: Frank	DNNO.: FEDN200804-02		
TREATMENT:	DATE: 2009-3-10		
REF. DWG NO.: SW : 803050993			
SYMBLE NUMBER: HG050992F			
ITEM NUMBER: 802050992501			

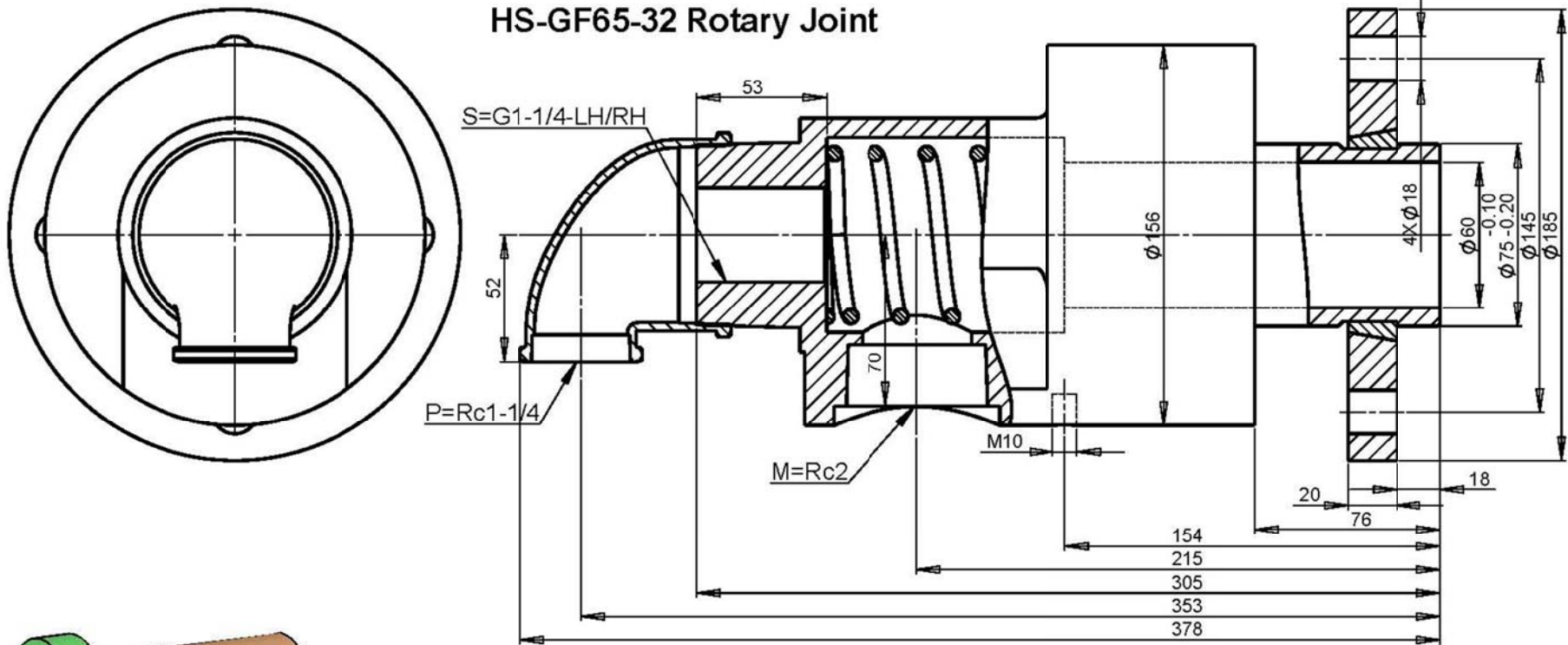
<b>THE FREED CORPORATION</b>			
www.freedseal.com			
PROJECT VIEW	NAME: HS-GF50-25 ROTARY JOINT	REV.	
	SURFACE DRAWING	A	
	CFG: JOINT HG Q-FLANGE ASM	PAGE 1	DWG NO.:
SCALE	1:1	OF 1	802050992501

# The drawing of HSGF65-32 Rotary Joint



# The drawing of HSGF65-32 Rotary Joint

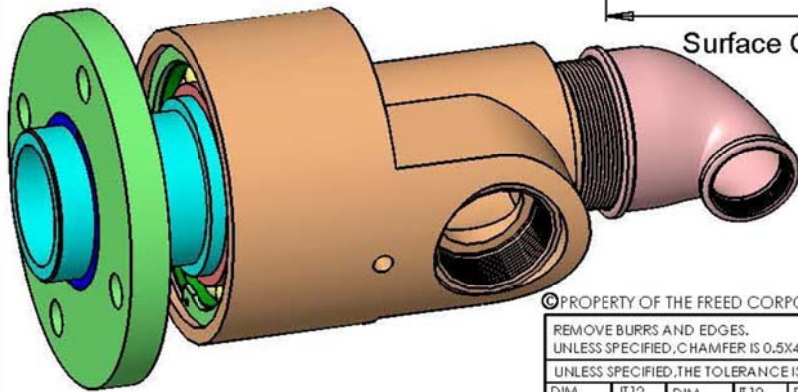
## HS-GF65-32 Rotary Joint



Surface Contour for Dual Flow HS-GF65-32 Rotary Joint With Stationary Internal Pipe

## H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water, oil, air.



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REMOVE BURRS AND EDGES.  
UNLESS SPECIFIED, CHAMFER IS 0.5X45° OR FILLET IS R0.5.

UNLESS SPECIFIED, THE TOLERANCE IS IT12.

DIM	IT12	DIM	IT12	DIM	IT12
0-3mm	±0.05	>50-80	±0.15	>400-500	±0.32
>3-6mm	±0.06	>80-120	±0.18	>500-630	±0.35
>6-10mm	±0.08	>120-180	±0.20	>630-800	±0.40
>10-18mm	±0.09	>180-250	±0.23	>800-1000	±0.45
>18-30mm	±0.11	>250-315	±0.26	>1000-1250	±0.53
>30-50mm	±0.13	>315-400	±0.28	>1250-1600	±0.63

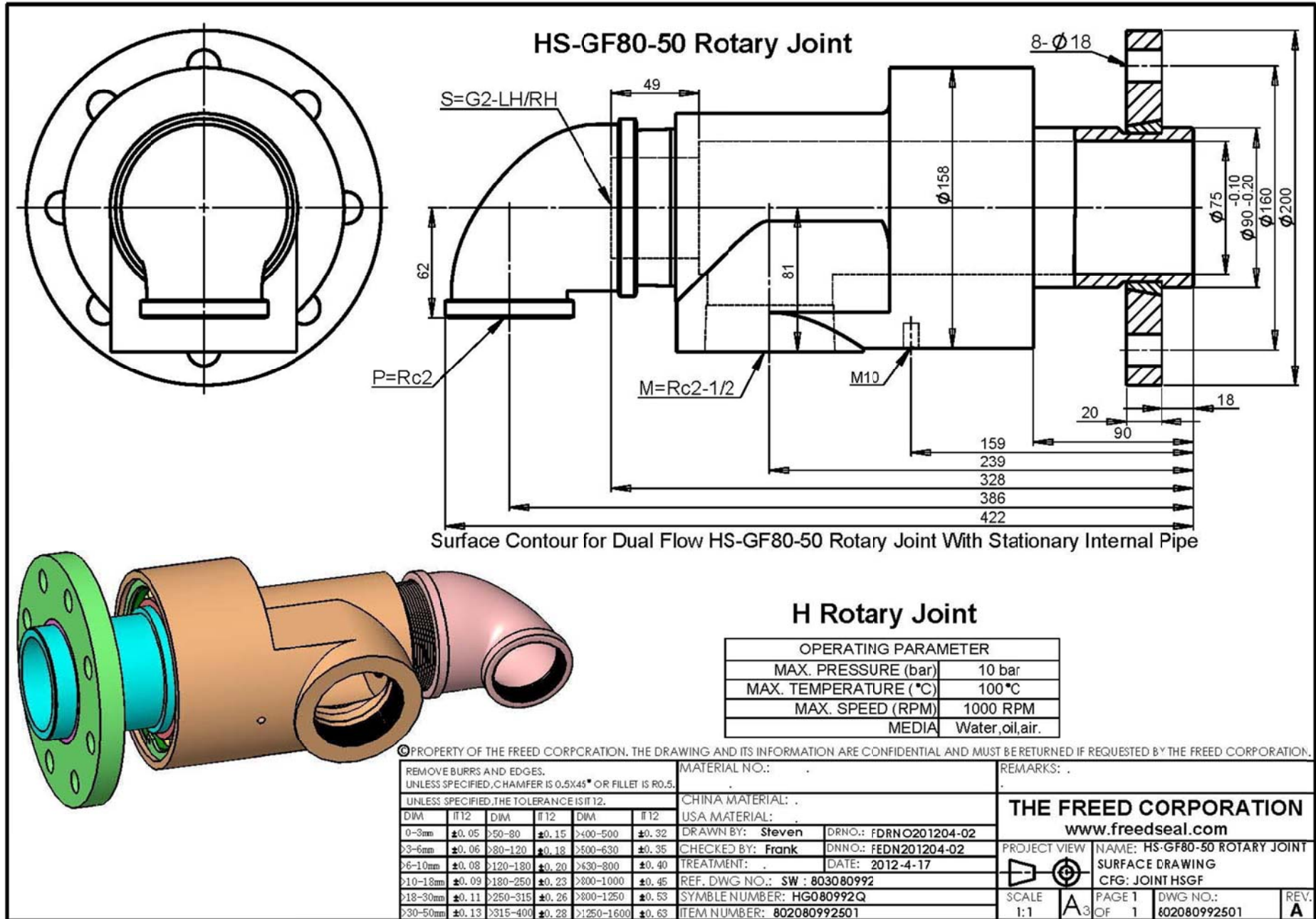
MATERIAL NO.:	REMARKS:
CHINA MATERIAL:	
USA MATERIAL:	
DRAWN BY: Steven	DRNO.: FDRNO200812-04
CHECKED BY: Frank	DNNO.: FEDN200812-04
TREATMENT:	DATE: 2008-12-20
REF. DWG NO.: SW : 803065993	
SYMBLE NUMBER: HG065992Q	
ITEM NUMBER: 802065992502	

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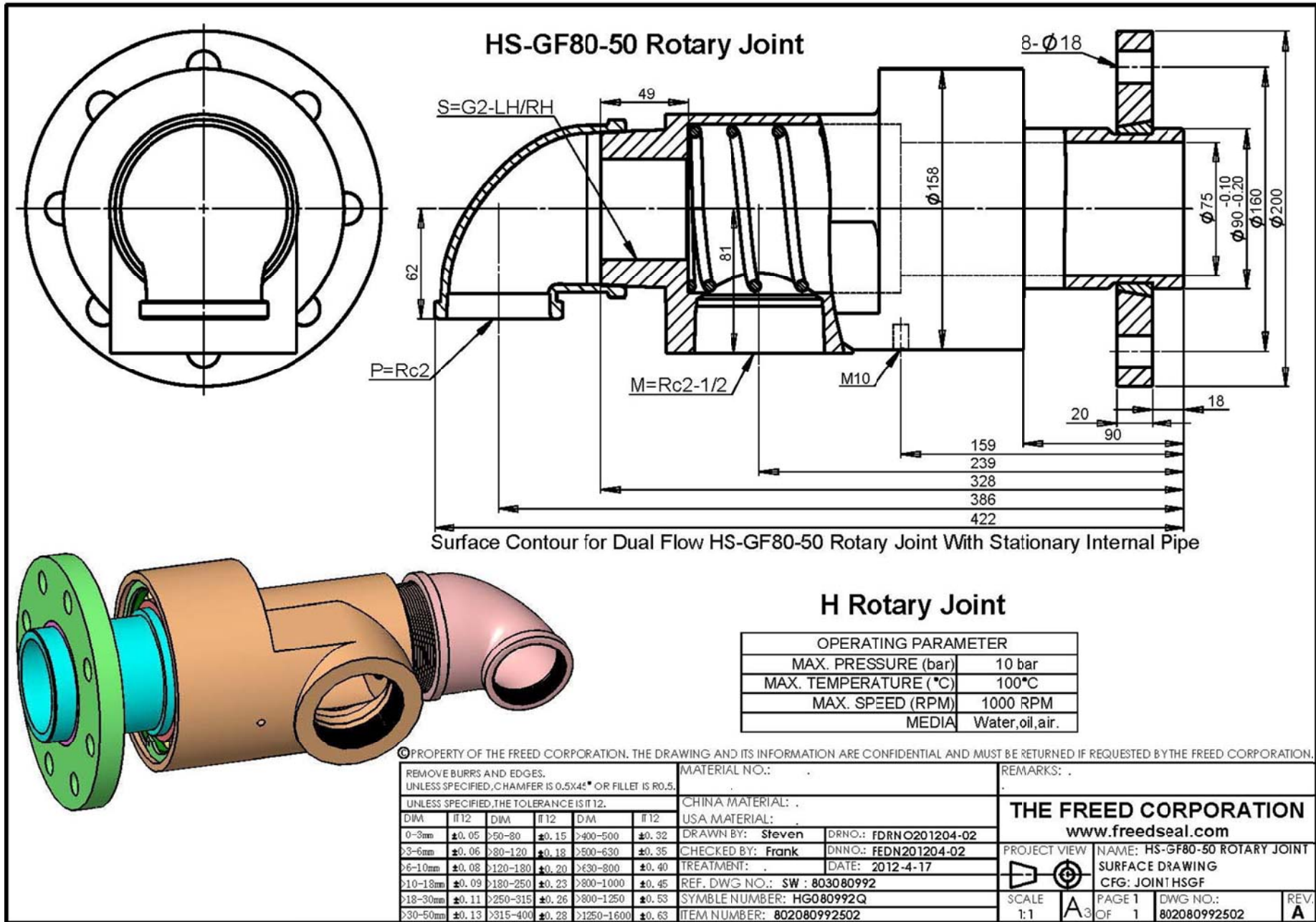
PROJECT VIEW: NAME: HS-GF65-32 ROTARY JOINT  
SURFACE DRAWING  
CFG: JOINT HSGF

SCALE: 1:1 PAGE 1 OF 1 DWG NO.: 802065992502 REV. A

# The drawing of HSGF80-50 Rotary Joint



# The drawing of HSGF80-50 Rotary Joint

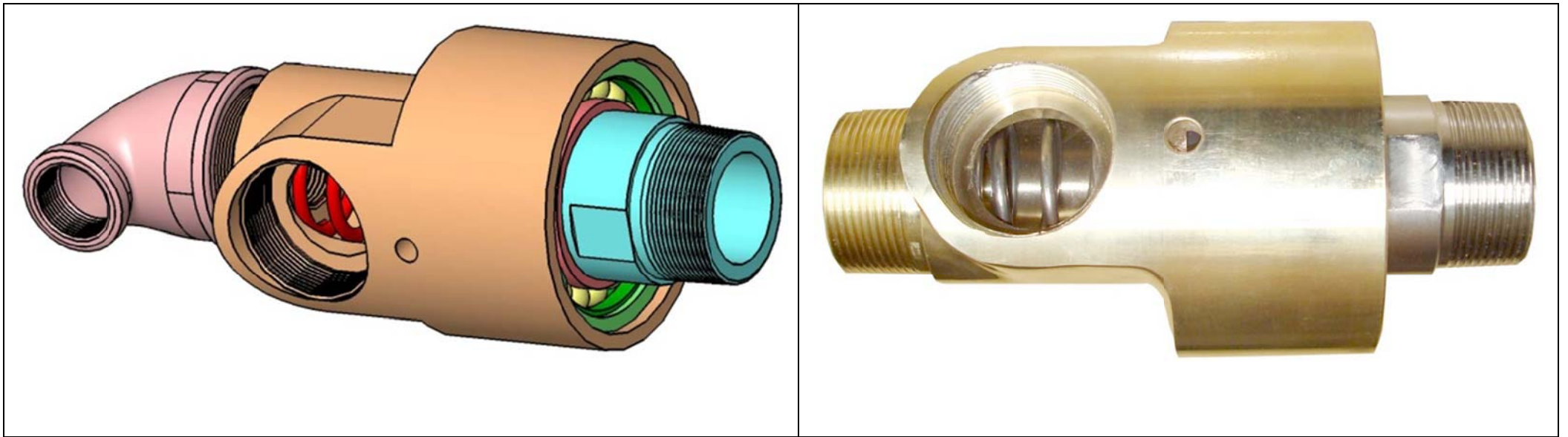






# HSX Rotary Joint

Type HSX dual flow, rotating internal pipe, rotary joint with threaded nipple

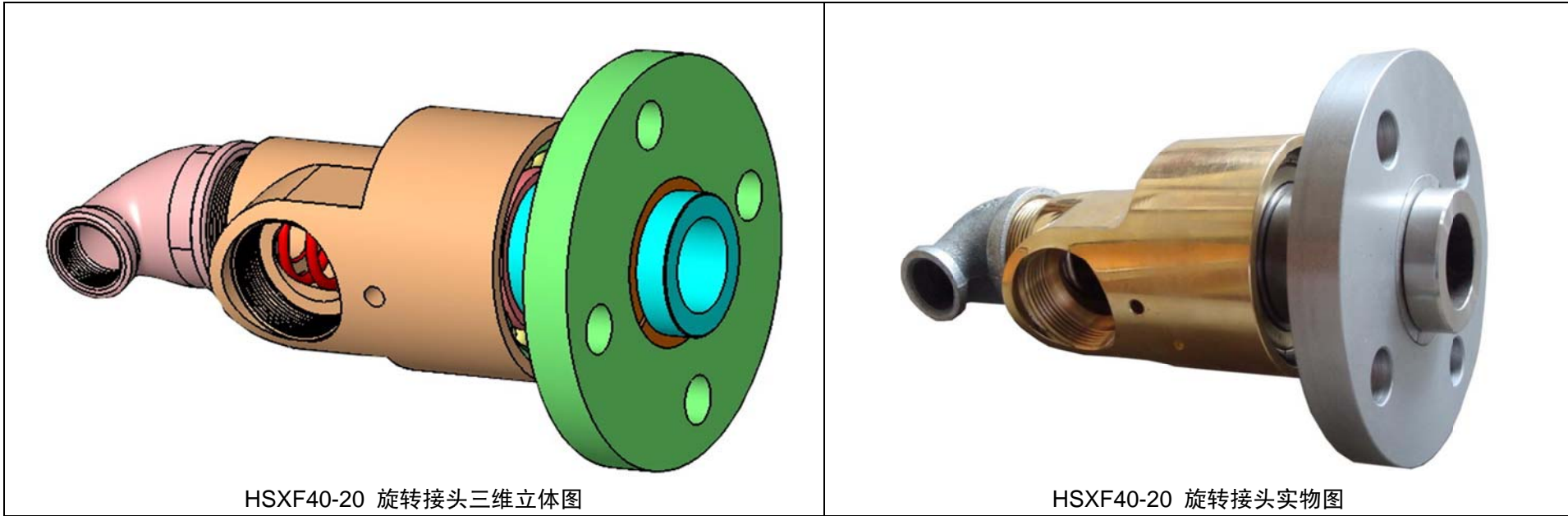


Type HSX dual flow, rotating internal pipe, rotary joint with threaded nipple



## HSXF Rotary Joint

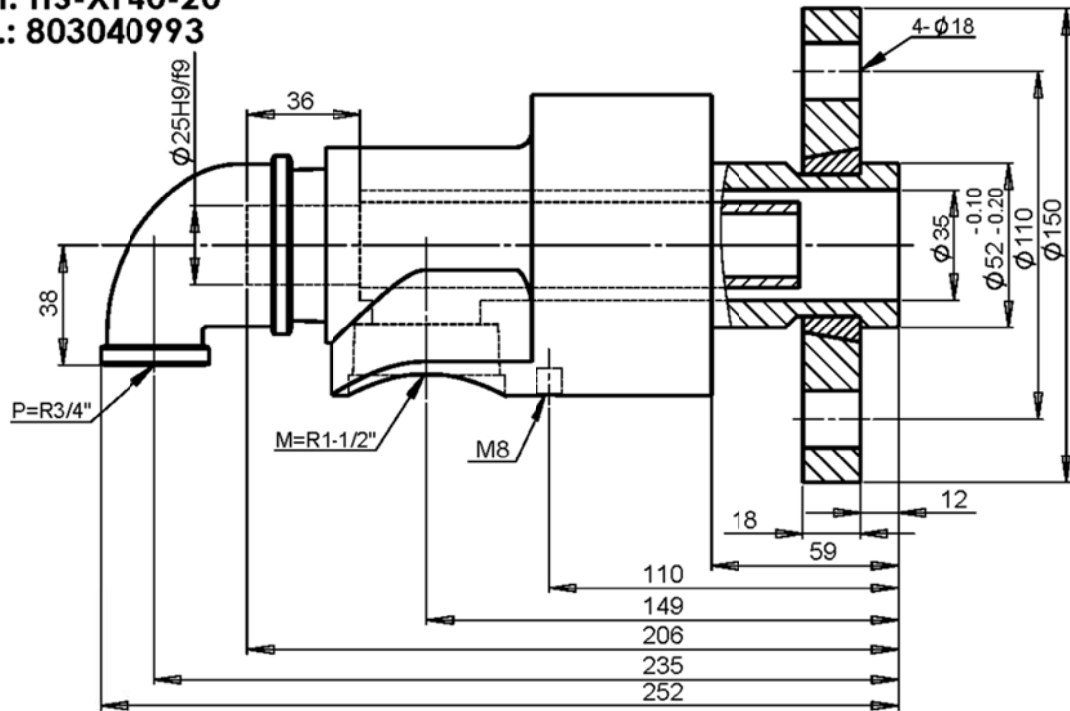
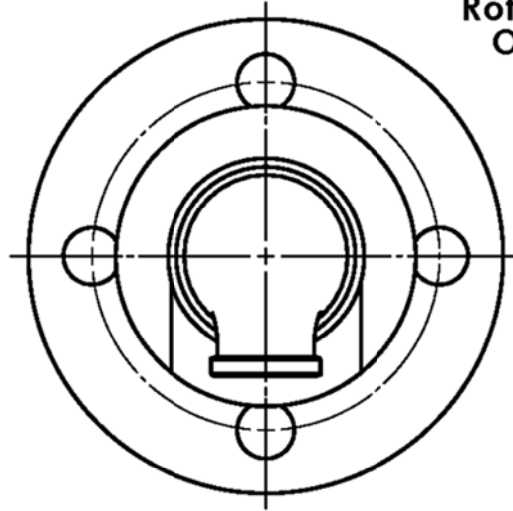
Type HSXF dual flow, rotating internal pipe, rotary joint with quick release flanged nipple



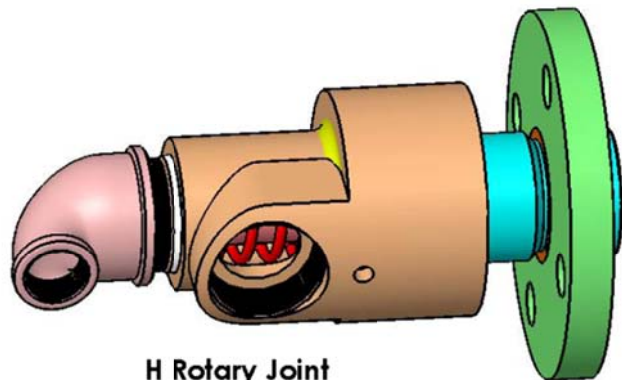
Type HSXF dual flow, rotating internal pipe, rotary joint with quick release flanged nipple

# The drawing of HSXF40-20 Rotary Joint

**Rotary Joint: HS-XF40-20**  
**Order No.: 803040993**



Dual Flow HS-X40-20 Rotary Joint With Rotating internal Pipe .



H Rotary Joint

OPERATING PARAMETER	
MAX. PRESSURE (bar)	10 bar
MAX. TEMPERATURE (°C)	100°C
MAX. SPEED (RPM)	1000 RPM
MEDIA	Water,Air

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UNLESS SPECIFIED, THE TOLERANCE IS IT12.						CHINA MATERIAL: .		<b>THE FREED CORPORATION</b> www.freedseal.com	
USA MATERIAL: .						DRAWN BY: Steven			
DIM	IT12	DIM	IT12	DIM	IT12	CHECKED BY: Frank		DNNNO.: FEDN200811-02	
0-3mm	±0.05	>3-6mm	±0.06	>6-10mm	±0.08	TREATMENT: .		DATE: 2010-1-5	
>3-6mm	±0.06	>6-10mm	±0.08	>10-18mm	±0.09	REF. DWG NO.: SW : 803040993		PROJECT VIEW	
>6-10mm	±0.08	>10-18mm	±0.10	>18-30mm	±0.11	SYMBLE NUMBER: HX040993F		NAME: HS-XF40-20 ROTARY JOINT	
>10-18mm	±0.09	>18-30mm	±0.11	>30-50mm	±0.13	ITEM NUMBER: 803040993501		ASSEMBLY DRAWING	
>18-30mm	±0.11	>30-50mm	±0.13					CFG: JOINTHX Q-FLANGE	
>30-50mm	±0.13							SCALE 1:1	
								PAGE 1 OF 1	
								DWG NO.: 803040993501	
								REV. A	

## Contact us

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Fax: 0632-5502020

E-mail: [freedseal@188.com](mailto:freedseal@188.com)

Web site: [www.freedseal.com](http://www.freedseal.com)