

- CERTIFICATION: These male to female type 490 Inline Swivel Lockstop Coupling Components meet the requirements of IECEx/ATEX for Exd I ExdIIC, Exe I, ExeIIC and ExtbIIC installations, and are suitable for fitment into or onto suitably threaded entries in Exd equipment as part of the equipments overall apparatus certification.
 <u>SPECIFICATION</u>: In accordance with IEC/EN60079-0, IEC/EN60079-1, IEC/EN60079-7, IEC/EN60079-31
- <u>TESTS</u>: These male to female type 490 Inline Swivel Lockstop Coupling Components meet with the requirements of IEC / EN 60079-0, IEC/EN 60079-1, IEC/EN60079-7, IEC/EN60079-31
- <u>4. MATERIAL</u>: These Inline Swivel Lockstop Coupling Components may be manufactured from any of the metallic materials listed in drawing number 3015. FINISH: The Inline Swivel Lockstop Coupling Components may be plated to a maximum thickness of 0.008mm. The wall thickness between the thread major diameter and the adaptor external hexagon shall be at least 1.5 mm thick.
- 5. GAUGING & THREADS: The threads shown in drawing 3016 may be used. The threads can be of the same shape and form on each end of the adaptor or alternatively, the threads size and form may be different. In which case, the bore relating to the smallest male thread size shall apply and the hexagon size relating to the larger thread size applies. There
- shall be no more than one step size difference between the threads
 <u>STAMPING</u>: Components in Brass, Stainless Steel and Steel to be stamped in the following manner-

Format:

HAWKE 490/Thread Sizes/ Exd I Mb Exe I Mb ExdIICGb I ExeIIC Gb, Extb IIIC Db (-60°C to +100°C)* See note 8 for temperature details IP66

SIRA11ATEX1347U IECExSIR11.0152U IM2 /II2GD year of manufacture OL7 0NA UK 1180

Example: Groups I and II:- Brass, Nickel Plated Brass and Stainless Steel only HAWKE 490/M25/M25 / Exd I Mb Exe IMb ExdIIC Gb ExeIIC Gb Extb IIIC Db (-60°C to +100°C)* See note 8 for temperature details IP66 SIRA11ATEX1347U IECEXSIR11.0152U W IM2 /II2GD 11 OL7 ONA UK 1180

Note: The EPL's may be omitted from the product marking and added to the packaging. The Exe marking for Group I or II may also be omitted if not required.

Aluminium Inline Swivel Lockstop Couplings and M16 male threaded couplings are to contain Group II marking details only with no reference to Group I Additional localize methods we convide the converted to convert the ID ratio of the Statemethod of the Statemet

- <u>7</u>. Additional sealing methods may be required to ensure the IP rating of the equipment is maintained when using these Inline Swivel Lockstop Coupling Components.
- 8. <u>O RING: (Pimseal or equivalent Silicone 70 Shore, Temp range -60°C to +200°C)</u> O Ring – Silicon 70 -60°C to +100°C

<u>CLAMPING OLIV</u>E

OLIVE – Brass, Stainless steel or Aluminium may be used.

				Male																
			Female	entry														1		
			entry	thread		Flameproof	Flameproof	Hexagon		Hexagon	Hexagon		Hexagon	Hexagon		Hexagon				ı
	Male	Female	thread	length	Max Bore	Swivel	Swivel	A/F Size	A/C Size	Width	A/F Size	A/C Size	Width	A/F Size	A/C Size	Width	Clamping		Internal Snap	Overall
	Thread	Thread	length	Metric	Diameter	Diameter	Length	Swivel	Swivel	Swivel	Lock Nut	Lock Nut	Lock Nut	Sleeve	Sleeve	Sleeve	Olive	O-Ring	Ring	Length
	В	С	D	E	F	G	Н		J	К	L	М	Ν	0	Р	Q				U
GROUP II ONLY	M16 x1.5	M16 x1.5	16	15	11	22	25	30	32.5	4	36	39.5	10.5	36	39.5	6	22 I/D	19.5 l/D x 1.5	RBM0220	72.5
GROUP II ONLY	1/2NPT	1/2NPT	18	22.5	14.3	22	25	30	32.5	4	36	39.5	10.5	36	39.5	6	22 I/D	19.5 l/D x 1.5	RBM0220	75.5
	M20 x 1.5	M20 x 1.5	16	15	14.3	22	25	30	32.5	4	36	39.5	10.5	36	39.5	6	22 I/D	19.5 l/D x 1.5	RBM0220	72.5
	3/4NPT	3/4NPT	18	22.8	20.2	22	25	30	32.5	4	36	39.5	10.5	36	39.5	6	22 I/D	19.5 l/D x 1.5	RBM0220	77.5
	M25 x 1.5	M25 x 1.5	16	15	20.2	35	25	46	50.5	6	55	60.6	10.5	46	50.5	6	35 I/D	32.5 I/D x 1.5	RBM0350	74.5
	1NPT		22	27.65	26.5	35	25	46	50.5	6	55	60.6	10.5	46	50.5	6	35 I/D	32.5 I/D x 1.5	RBM0350	80.5
	M32 x 1.5	M32 x 1.5	16	15	26.5	35	25	46	50.5	6	55	60.6	10.5	46	50.5	6	35 I/D	32.5 I/D x 1.5	RBM0350	74.5
	11/4NPT	11/4NPT	22	28.27	32.5	35	25	46	50.5	6	55	60.6	10.5	46	50.5	6	35 I/D	32.5 I/D x 1.5	RBM0350	82.5
	M40 x 1.5	M40 x 1.5	16	15	32.5	55	25	65	70.8	6	80	88	10.5	65	70.8	6	55 I/D	52.5 I/D x 1.5	RBM0550	76.5
	11/2 NPT	11/2 NPT	22	28.69	44.5	55	25	65	70.8	6	80	88	10.5	65	70.8	6	55 I/D	52.5 I/D x 1.5	RBM0550	82.5
	M50 x 1.5	M50 x 1.5	16	15	44.5	55	25	65	70.8	6	80	88	10.5	65	70.8	6	55 I/D	52.5 I/D x 1.5	RBM0550	76.5
	2NPT	2NPT	22	29.53	56.3	55	25	65	70.8	6	80	88	10.5	65	70.8	6	55 I/D	52.5 I/D x 1.5	RBM0550	87.5
	M63 x 1.5	M63 x 1.5	16	15	56.3	80	25	95	104	8	95	104	11.5	95	104	10	80 I/D	76.5 I/D x 2.0	RBM0800	81.5
	21/2 NPT	21/2 NPT	26	43.46	65.3	80	25	95	104	8	95	104	11.5	95	104	10	80 I/D	76.5 I/D x 2.0	RBM0800	91.5
	M75 x 1.5	M75 x 1.5	16	15	68.3	80	25	95	104	8	95	104	11.5	95	104	10	80 I/D	76.5 I/D x 2.0	RBM0800	81.5
	3 NPT	3 NPT	26	45 15	68.3	80	25	95	104	8	95	104	11.5	95	104	10	80 I/D	76.5 I/D x 2.0	RBM0800	91.5

A3 THIS IS A CAD DRAWING AND MUST BE EDITED AT SOURCE

L		ALL COPYRIGHT RESERVED - HAWKE INTERNATIONAL 2005. THIS DRAWING AND ALL COPYRIGHT THEREIN IS THE PROPERTY OF HAWKE INTERNATIONAL A DIVISION OF HUBBELI LIMITED						DRN	AD	TITLE	DRG. No.	
International	(A member of the Hubbell Group of Companies).	DO NOT SCALE IF IN DOUBT ASK	1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" and 3" BORE DIMENSIONS	22/05/13 HEG13/ F		Г	CHD	TLA	INLINE SWIVEL LOCKSTOP	490		
OXFOR ASHTO OL7 0N	OXFORD ST WEST ASHTON-U-LYNE DI Z 0NA	(COPYRIGHT CONDITION: THIS DRAWING SHALL BE USED ONLY FOR THE PURPOSE FOR WHICH TIS PROVIDED AND NO REPRODUCTION OR PUBLICATION OF THIS DRAWING MAY BE MADE AND NO ARTICLE MAY BE MANUFACTURED OR ASSEMBLED IN ACCORDANCE WITH THIS DRAWING WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER.	GENERAL TOLERANCES	INCREASED COLUMN F RECESS AND 30 DEGREE TAPER ADDED TO INLINE OUTER SLEEVE. CLAMPING RING REPLACED WITH OLIVE.	26/11/12	044 HEG12/ 029	В	DATE	re 09/01/11			
TEL: +4	4 (0)161 308 3611	REMOVE ALL BURRS AND SHARP EDGES USING MINIMUM CHAMFER OR RADIUS.	ANGULAR ± 0°30'	FIRST ISSUE	09/01/11		А				SCALE 222	SHEET 1 OF 1
		PARTICULARLY REMOVE ALL BURRS FROM START AND FINISH OF THREADS	UNLESS OTHERWISE STATED	MODIFICATION	DATE/SIG	DCN	ISSUE		111111			



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H4W/KE	ALL COPYRIGHT RESERVED - HAWKE INTERNATIONAL 2005. THIS DRAWING AND ALL COPYRIGHT THEREIN IS THE PROPERTY OF HAWKE INTERNATIONAL, A DIVISION OF HUBBELL LIMITED. (A member of the Hubbell Group of Companies).					DRN	AD	TITLE	DRG. No.		
International OXFORD ST WEST ASHTON-U-LYNE OL7 ONA TEL: +44 (0)161 308 3611	(COPYRIGHT CONDITION: THIS DRAWING SHALL BE USED ONLY FOR THE PURPOSE	DO NOT SCALE IF IN DOUBT ASK GENERAL TOLERANCES LINEAR ± 0.15mm	1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" and 3" BORE DIMENSIONS INCREASED COLUMN F	22/05/13 HEG13/	C	СНД	TLA		491		
	DRAWING MAY BE MADE AND NO ARTICLE MAY BE MANUFACTURED OR ASSEMBLED IN ACCORDANCE WITH THIS DRAWING WITHOUT THE PRIOR WRIT CONSENT OF THE OWNER.		RECESS AND 30 DEGREE CHAMFER ADDED TO ELBOW	14/08/12 AD <mark>023</mark>	В	DATE	09/01/11				
	REMOVE ALL BURRS AND SHARP EDGES USING MINIMUM CHAMFER OR RADIUS.	ANGULAR $\pm 0^{\circ}30'$	FIRST ISSUE	09/01/11	Α		NITS MM		SCALE 222	SHEET 1 OF 1	
	PARTICULARLY REMOVE ALL BURRS FROM START AND FINISH OF THREADS	UNLESS OTHERWISE STATED	MODIFICATION	DATE/SIG DCN	ISSUE	E					

Components meet the requirements of IECEx/ATEX for Exd I ExdIIC, Exe I, ExeIIC and

ExtbllC installations, and are suitable for fitment into or onto suitably threaded entries in

Exd equipment as part of the equipments overall apparatus certification. SPECIFICATION: In accordance with IEC/EN60079-0. IEC/EN60079-1

the requirements of IEC / EN 60079-0, IEC/EN 60079-1, IEC/EN60079-7,

used. The threads can be of the same shape and form on each end of the adaptor or alternatively, the threads size and form may be different. In

which case, the bore relating to the smallest male thread size shall apply

HAWKE 491/Thread Sizes/ Exd I Mb Exe I Mb ExdIICGb I ExelIC Gb. Extb IIIC Db (-

SIRA11ATEX1347U IECExSIR11.0152U IM2 /II2GD vear of manufacture OL7 0NA

Note: - The EPL's may be omitted from the product marking and added to the packaging.

Aluminium Inline Swivel Couplings and M16 male threaded couplings are to contain

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Example: Groups I and II:- Brass, Nickel Plated Brass and Stainless Steel only HAWKE 491/M25/M25 / Exd I Mb Exe IMb ExdIIC Gb ExelIC Gb Extb IIIC Db (-60°C to

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equipment is maintained when using these Inline Swivel Coupling Components. O RING (Pimseal or equivalent Silicone 70 Shore, Temp range -60°C to +200°C)

and the hexagon size relating to the larger thread size applies. There

shall be no more than one step size difference between the threads

60°C to +100°C)* See note 8 for temperature details IP66

Group II marking details only with no reference to Group I

-60°C to +100°C

+100°C)* See note 8 for temperature details IP66

FINISH: The Inline Swivel Coupling Components may be plated to a maximum thickness of 0.008mm. The wall thickness between the thread major diameter and the adaptor external hexagon shall be at least 1.5 mm thick.

the metallic materials listed in drawing number 3015.

IEC/EN60079-7, IEC/EN60079-31

IEC/EN60079-31

following manner:-

O Ring – Silicon 70

Format

UK 1180