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NOTE :

1. SCREW THREAD TOLERANCES TO ISO 724:1993; 965-3:1998 CLASS 8g. THREAD ROOT CONTOURS TO CONFORM TO ISO 965-1:1998. CHECK FINISHED THREADS WITH GO-GAUGE TO ISO 1502:1996.
2. BOLT DIMENSIONS TO CONFORM TO ISO 4016:1999. SCREW DIMENSIONS (SHOWN THUS: *) TO ISO 4018:1999.
3. EACH BOLT TO BE SUPPLIED WITH ONE HEX. NUT TO DRG. ESY7500.

MATERIAL : SEE TABLE.

STAMP THE APPROPRIATE
WARMAN MATERIAL CODE

STAMP 'W' AND 'M ***'
IN 3 HIGH LETTERS

PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS
A012M* AF034M*	E62	M12x1,75	40	7,95 7,05	17	30	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-40ZN
B012M	E62	M12x1,75	85	7,95 7,05	16,47 MIN.	30	0,6 MAX.	12,70 11,30	0,6	18,00 17,57	M12H1-90ZN
C012M	E62	M20x2,5	110	13,40 11,60	27,70 MIN.	46	0,8 MAX.	20,84 19,16	0,8	30,00 29,16	M20H1-120ZN

48		19MAR2020	PCN-05003547	RR	SK
47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.	19MAR2020	PCN-05003547	RR	SK
46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.	10FEB2020	PCN-05003473	RR	SK
45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.	14OCT2019	EDR-MD19036	BP	KS

REV	DESCRIPTION	DATE	REF NO	BY	CHK

FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.

OFFICE OF ORIGIN :
ARTARMON

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SCALE: -

APP: -

CHK: JA

DRN: R.HEUSSLER

DATE: 27JAN1972

PRODUCT

WARMAN®

Centrifugal Slurry Pumps

WEIR

Minerals

TITLE

WARMAN PUMP

HEXAGON HEAD BOLTS

SHEET SIZE

A4

DRAWING No

ESY7483

REVISION

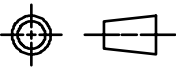
47


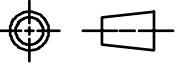
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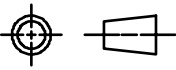
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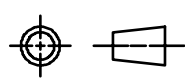
3

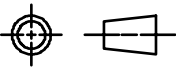
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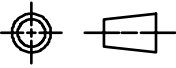
1			2				3			4		
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	D012M	E62	M24x3,0	140	15,90 14,10	35	60	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-140ZN
	E012M	E62	M30x3,5	170	19,75 17,65	44	72	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-170ZN
	F012M	E62	M30x3,5	220	19,75 17,65	44	72	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-220ZN
B	G012M	E62	M36x4,0	260	23,55 21,45	53	97	0,8 0,3	37,00 35,00	1,0	55,00 53,80	M36H1-260ZN
	H012M	E65	M64x6,0	350	41,95 39,05	92	153	1,0 0,3	65,20 62,80	2,0	95,00 92,80	M64H1-350VN
	J012M	E62	M90x6,0	500	57,37 56,63	127	205	1,2 0,4	91,40 88,60	2,5	130,00 127,50	MAX. THREAD M64 (ISO 4016)
	R012M	E62	M30x3,5	180	19,75 17,65	44	72	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-180ZN
C	YB012M	E62	M12x1,75	110	7,95 7,05	17	30	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-110ZN
	YC012M	E62	M16x2,0	140	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-140ZN
	YC3012M	E62	M16x2,0	150	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-150ZN
	YD2012M	E62	M20x2,5	160	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-160ZN
	YD3012M	E62	M20x2,5	170	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-170ZN
D	YE4012M	E62	M20x2,5	220	13,40 11,60	29	65	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-220ZN
E	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020		PCN-05003547		RR	SK
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020		PCN-05003473		RR	SK
F	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019		EDR-MD19036		BP	KS
	REV	DESCRIPTION					DATE		REF NO		BY	CHK
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT WARMAN® Centrifugal Slurry Pumps				WEIR Minerals		
			OFFICE OF ORIGIN : ARTARMON			TITLE						
	SCALE: -		Copyright © Weir Minerals Australia Ltd. 1972 Weir Minerals Australia Ltd ("the Company") is the owner of the copyright and all confidential information in this drawing.			WARMAN PUMP						
	APP: -		The drawing must not be copied in whole or in part, in any form or by any means, and the information in it must not be disclosed to any person, or used for any purpose other than the specific purpose for which it has been provided, without the prior written consent of the Company.			HEXAGON HEAD BOLTS						
	CHK: JA											
	DRN: R.HEUSSLER		SHEET SIZE		DRAWING No				REVISION			
DATE: 27JAN1972		SHEET 2 OF 9		A4		ESY7483				47		
1			2			3			4			

1		2				3			4			
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	YE6012M	E62	M20x2,5	325	13,40 11,60	29	65	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-325ZN
	YB15015M	E62	M12x1,75	130	7,95 7,05	17	36	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-130ZN
	YC2015M YC3015M	E62	M16x2,0	170	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-170ZN
B	YD2015M	E62	M20x2,5	180	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-180ZN
	YD3015M	E62	M20x2,5	200	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-200ZN
	YD4015M	E62	M20x2,5	220	13,40 11,60	29	65	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-220ZN
	YE4015M											
C	YE6015M	E62	M20x2,5	350	13,40 11,60	29	65	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-350ZN
	B126M	C23	M6x1,0	40	4,38 3,62	8,74 MIN.	18	0,5 MAX.	6,48 5,52	0,3	10,00 9,64	M6H1-40SN
	BSC126M	C23	M6x1,0	60	4,38 3,62	9	18	0,5 0,15	6,48 5,52	0,3	10,00 9,64	M6H1-60SN
	C126M	C23	M8x1,25	60	5,68 4,92	12	22	0,6 0,15	8,58 7,42	0,4	13,00 12,57	M8H1-60SN
	D126M	C23	M10x1,5	60	6,85 5,95	14,47 MIN.	26	0,6 MAX.	10,58 9,42	0,4	16,00 15,57	M10H1-60SN
D	E126M	C23	M12x1,75	85	7,95 7,05	16,47 MIN.	30	0,6 MAX.	12,70 11,30	0,6	18,00 17,57	M12H1-85SN
E	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK	
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK	
F	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP	KS	
	REV	DESCRIPTION					DATE	REF NO		BY	CHK	
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT						
	 OFFICE OF ORIGIN : ARTARMON					WARMAN® Centrifugal Slurry Pumps						
	SCALE: - APP: - CHK: JA					TITLE WARMAN PUMP HEXAGON HEAD BOLTS						
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	DRN: R.HEUSSLER					SHEET SIZE		DRAWING No		REVISION		
	DATE: 27JAN1972					SHEET 3 OF 9		A4		ESY7483		
										47		

1		2				3			4			
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	G126M	C23	M16x2,0	100	10,75 9,25	22,00 MIN.	38	0,8 MAX.	16,70 15,30	0,6	24,00 23,16	M16H1-100SN
	GP126M	C23	M16x2,0	130	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-130SN
	H126M	C23	M12x1,75	130	7,95 7,05	17	36	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-130SN
B	J126M	C23	M16x2,0	260	10,75 9,25	23	57	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-260SN
	B182M*	E62	M12x1,75	40	7,95 7,05	17	30	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-40ZN
	C182M*	E62	M16x2,0	60	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-60ZN
	D182M*	E62	M20x2,5	65	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-65ZN
C	DG4270M	E62	M12x1,75	75	7,95 7,05	16,47 MIN.	30	0,6 MAX.	12,70 11,30	0,6	18,00 17,57	M12H1-75ZN
	BF034M*	E62	M12x1,75	50	7,95 7,05	17	30	0,6 0,15	12,70 11,30	0,6	18,00 17,57	M12H1-50ZN
	FG8270M*	E62	M12x1,75	50	7,95 7,05	16,47 MIN.	30	0,6 MAX.	12,70 11,30	0,6	18,00 17,57	M12H1-50ZN
	FG10270M	E62	M16x2,0	110	10,75 9,25	22,00 MIN.	38	0,8 MAX.	16,70 15,30	0,6	24,00 23,16	M16H1-110ZN
	FG12270M	E62	M16x2,0	120	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-120ZN
D	GG14270M	E62	M16x2,0	150	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-150ZN
E	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020		PCN-05003547		RR	SK
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020		PCN-05003473		RR	SK
F	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019		EDR-MD19036		BP	KS
	REV	DESCRIPTION					DATE		REF NO		BY	CHK
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT WARMAN® Centrifugal Slurry Pumps				WEIR Minerals		
			OFFICE OF ORIGIN : ARTARMON			TITLE WARMAN PUMP HEXAGON HEAD BOLTS						
	SCALE: -		Copyright © Weir Minerals Australia Ltd. 1972 Weir Minerals Australia Ltd ("the Company") is the owner of the copyright and all confidential information in this drawing. The drawing must not be copied in whole or in part, in any form or by any means, and the information in it must not be disclosed to any person, or used for any purpose other than the specific purpose for which it has been provided, without the prior written consent of the Company.			SHEET SIZE A4 DRAWING No ESY7483 REVISION 47						
	APP: -											
	CHK: JA											
	DRN: R.HEUSSLER		SHEET 4 OF 9									
DATE: 27JAN1972												
1		2			3			4				

1		2				3			4				
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS		
A	GD20270M	E62	M20x2,5	180	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-180ZN	
	HG24270M	E62	M20x2,5	160	13,40 11,60	29	52	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-160ZN	
	HG28270M	E62	M24x3,0	240	15,90 14,10	35	73	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-240ZN	
B	HD26270M	E62	M16x2,0	170	10,75 9,25	23	44	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-170ZN	
	EV4192M*	E62	M24x3,0	80	15,90 14,10	35	54	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-80ZN	
	F8192M	E62	M24x3,0	100	15,90 14,10	35	54	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-100ZN	
	44AT4M	E62	M30x3,5	240	19,75 17,65	44	85	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-240ZN	
C	R126M	C23	M8x1,25	100	5,68 4,92	12	22	0,6 0,15	8,58 7,42	0,4	13,00 12,57	MAX. LENGTH 80 (ISO 4016)	
	A126M	C23	M6x1,0	50	4,38 3,62	9	18	0,5 0,15	6,48 5,52	0,3	10,00 9,64	M6H1-50SN	
	FV199M*	E62	M20x2,5	60	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-60ZN + TAPER WASHER	
	EAF8034M*	E62	M30x3,5	110	19,75 17,65	44	66	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-110ZN	
	T012M	E62	M42x4,5	300	27,67 24,35	59,95 MIN.	109	1,0 MAX.	43,00 41,00	1,2	65,00 63,10	M42H1-300ZN	
D	N012M	E62	M16x2,0	90	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-90ZN	
	48												
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK		
E	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK		
	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP	KS		
F	REV	DESCRIPTION					DATE	REF NO		BY	CHK		
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT							
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						TITLE WARMAN PUMP HEXAGON HEAD BOLTS							
											SHEET SIZE DRAWING No		
	DATE:	27JAN1972		SHEET 5 OF 9			A4 ESY7483		47				
	1		2				3			4			

1		2				3			4			
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	P012M	E62	M20x2,5	110	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-110ZN
	TC4189M	E62	M20x2,5	85	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-85ZQ
	G192M	C23	M42x4,5	350	27,67 24,35	62	109	1,0 0,3	43,00 41,00	1,2	65,00 63,10	M42H1-350SN
B	G193M	C23	M42x4,5	220	27,67 24,35	62	109	1,0 0,3	43,00 41,00	1,2	65,00 63,10	M42H1-220SN
	U012M	E47	M64x6,0	425	41,95 39,05	92	153	1,0 0,3	65,20 62,80	2,0	95,00 92,80	M64H1-425WN
	U126M	C23	M20x2,5	220	13,40 11,60	29	65	0,8 0,2	20,84 19,16	0,8	30,00 29,16	MAX. LENGTH 200 (ISO 4016)
	DV012M	E62	M16x2,0	115	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-115ZN
C	TC3189M	E62	M20x2,5	80	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-890ZQ
	DF034M*	E62	M20x2,5	75	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-75ZN
	TC3193M TCV3189M	E62	M20x2,5	95	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-95ZC
	F193M	E62	M30x3,5	160	19,75 17,65	44	72	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-160ZN
	F192M	E62	M30x3,5	230	19,75 17,65	44	85	0,8 0,2	30,84 29,16	1,0	46,00 45,00	M30H1-230ZN
D	BC182M	E62	M10x1,5	20								M10H2-20ZN
	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK	
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK	
	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP	KS	
E	REV	DESCRIPTION					DATE	REF NO		BY	CHK	
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT WARMAN® Centrifugal Slurry Pumps				WEIR Minerals		
	 OFFICE OF ORIGIN : ARTARMON					TITLE						
	Copyright © Weir Minerals Australia Ltd. 1972 Weir Minerals Australia Ltd ("the Company") is the owner of the copyright and all confidential information in this drawing.					WARMAN PUMP						
	The drawing must not be copied in whole or in part, in any form or by any means, and the information in it must not be disclosed to any person, or used for any purpose other than the specific purpose for which it has been provided, without the prior written consent of the Company.					HEXAGON HEAD BOLTS						
	SCALE: -					SHEET SIZE				REVISION		
	APP: -					DRAWING No						
CHK: JA					A4				47			
DRN: R.HEUSSLER					ESY7483							
DATE: 27JAN1972					SHEET 6 OF 9							
1		2		3		4						

1		2				3			4			
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	TCV4189M	E62	M20x2,5	105	13,40 11,60	29	46	0,8 0,2	20,84 19,16	0,8	30,00 29,16	M20H1-105ZN
	EF034M* DAF034M*	E62	M24x3,0	90	15,90 14,10	35	54	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-90ZN
	F8193M	E62	M24x3,0	110	15,90 14,10	35	54	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-110ZN
B	E192M	E62	M24x3,0	215	15,90 14,10	35	73	0,8 0,2	24,84 23,16	0,8	36,00 35,00	M24H1-215ZN
	EV199M	E62	M10x1,5	45			26					M10H1-45ZN
	BAF034M*	E62	M16x2,0	50	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-50ZN
	CAF034M	E62	M16x2,0	75	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-75ZN
C	CF034M	E62	M16x2,0	70	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-70ZN
	TC2189M	E62	M16x2,0	70	10,75 9,25	23	38	0,8 0,2	16,70 15,30	0,6	24,00 23,16	M16H1-70ZQ
	G034-1M*	E62	M42x4,5	140	27,67 24,35	62	96	1,0 0,3	43,00 41,00	1,2	65,00 63,10	M42H1-140ZN
	'M' THREAD DESIGNATION LETTER ON NEW METRIC PART No'S NOT REQUIRED AS OF JANUARY 1994 (BSW AND UNC ALTERNATIVES NO LONGER ALLOCATED)											
D	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK	
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK	
	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP	KS	
E	REV	DESCRIPTION					DATE	REF NO		BY	CHK	
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.						PRODUCT					
			OFFICE OF ORIGIN : ARTARMON				WARMAN® Centrifugal Slurry Pumps					
	SCALE: -		Copyright © Weir Minerals Australia Ltd. 1972 Weir Minerals Australia Ltd ("the Company") is the owner of the copyright and all confidential information in this drawing.				TITLE					
	APP: -		The drawing must not be copied in whole or in part, in any form or by any means, and the information in it must not be disclosed to any person, or used for any purpose other than the specific purpose for which it has been provided, without the prior written consent of the Company.				WARMAN PUMP HEXAGON HEAD BOLTS					
	CHK: JA											
	DRN: R.HEUSSLER		SHEET SIZE				DRAWING No		REVISION			
	DATE: 27JAN1972		SHEET 7 OF 9				A4		ESY7483		47	

1	2	3	4
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'A' (ISO METRIC THREAD)

'E'

'R'

'F'

'B'

'C'

45°

30°

Ø 'G'

Ø 'D'

STAMP THE APPROPRIATE
WARMAN MATERIAL CODE

STAMP 'W' AND 'M ***'
IN 3 HIGH LETTERS

'W'

NOTE :

1. SCREW THREAD TOLERANCES TO ISO 724:1993; 965-3:1998 CLASS 8g.
THREAD ROOT CONTOURS TO CONFORM TO ISO 965-1:1998.
CHECK FINISHED THREADS WITH GO-GAUGE TO ISO 1502:1996.
2. BOLT DIMENSIONS TO CONFORM TO ISO 4016:1999.
SCREW DIMENSIONS (SHOWN THUS: *) TO ISO 4018:1999.
3. EACH BOLT TO BE SUPPLIED WITH ONE HEX. NUT TO DRG. ESY7500
AND TWO PLAIN WASHERS TO DRG. ESY7494.

MATERIAL : SEE TABLE.

PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS
TGSL80015	E63	M56x5,5	240	35,31 34,69	-	137	-	56,00 55,26	2,0	85,00 82,80	M56H1-240ZQ
TGSL80015A	E48	M56x5,5	520	35,31 34,69	-	137	-	56,00 55,26	2,0	85,00 82,80	MAX. LENGTH 500 (ISO 4016)

48										
47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK
46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK
45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP KS	

REV	DESCRIPTION	DATE	REF NO	BY	CHK

FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.

OFFICE OF ORIGIN :
ARTARMON

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SCALE: -

APP: -

CHK: JA

DRN: R.HEUSSLER

DATE: 27JAN1972

PRODUCT

WARMAN®

Centrifugal Slurry Pumps

WEIR

Minerals

TITLE

WARMAN PUMP

HEXAGON HEAD BOLTS

SHEET SIZE

A4

DRAWING No

ESY7483

REVISION


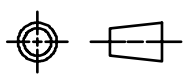
47

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3

4

1		2				3				4		
PART No.	MATERIAL CODE	A	B	C	D	E	F	G	R MIN.	W	REMARKS	
A	TGSL70015	E63	M48x5,0	220	30,26 29,74	-	121	-	48,00 47,38	1,6	75,00 73,10	M48H1-220ZQ
	TGSL70015A	E48	M48x5,0	400	30,26 29,74	-	121	-	48,00 47,38	1,6	75,00 73,10	M48H1-400WQ
	SGSL60015*	E63	M42x4,5	160	26,26 25,74	-	96	-	42,00 41,38	1,2	65,00 63,10	M42H1-160ZQ
B	SGSL60015A	E48	M42x4,5	375	26,26 25,74	-	109	-	42,00 41,38	1,2	65,00 63,10	M42H1-375WQ
	TGSL90015*	E47	M56x5,5	130	35,31 34,69	-	124	-	56,00 55,26	2,0	85,00 82,80	M56H1-130WQ
	TGSL90015A	E48	M56x5,5	280	35,31 34,69	-	137	-	56,00 55,26	2,0	85,00 82,80	M56H1-280WQ
	TGSL100015	E65	M64x6,0	300	40,31 39,69	-	153	-	64,00 63,26	2,0	95,00 92,80	M64H1-300E65Q
C												
D	48											
	47	B126MC23, H012ME65 VARIANTS ADDED TO MASTER.					19MAR2020	PCN-05003547		RR	SK	
	46	MASTER MODEL CREATED AND PARTS DRIVEN USING PART FAMILY OPTION. TEAMCENTER STRUCTURE UPDATED.					10FEB2020	PCN-05003473		RR	SK	
	45	DIMENSION 'D' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 17, 9, 29, 15, 17, 17, 23, 17, 23 AND 62. DIMENSION 'F' OF PART No. B012M, B126M, C012M, D126M, DG4270M, E126M, FG10270M, FG8270M, G126M AND T012M WERE 0.6/0.15, 0.5/0.15, 0.8/0.2, 0.6/0.15, 0.6/0.15, 0.6/0.15, 0.8/0.2, 0.6/0.15, 0.8/0.2 AND 1.0/0.3. DRAWING BORDER UPDATED.					14OCT2019	EDR-MD19036		BP	KS	
E	REV	DESCRIPTION					DATE	REF NO		BY	CHK	
F	FOR LIMITS OF UNTOLERANCED DIMENSIONS REFER TO DRG. A4-15895.					PRODUCT						
	 OFFICE OF ORIGIN : ARTARMON					WARMAN® Centrifugal Slurry Pumps						
	SCALE: - APP: - CHK: JA					TITLE WARMAN PUMP HEXAGON HEAD BOLTS						
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	DRN: R.HEUSSLER					SHEET SIZE		DRAWING No		REVISION		
	DATE: 27JAN1972					A4		ESY7483		47		
	SHEET 9 OF 9											