

S P E C I F I C A T I O N S

MITSUBISHI HIGH SPEED DIESEL ENGINE MODEL MITSUBISHI S6S-DT65SG

For MEE

(GENERATOR)

△ NON-EMISSION TYPE FOR STATIONARY USE ONLY

For reference only



DATE Mar. 3.1999

MITSUBISHI HEAVY INDUSTRIES, LTD.

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P	MEE
1	控
1	計

CHG	DATE	APPROVED	CHECKED	DRAWN
△	Feb.15.2008	<i>S. Ito</i>	<i>J. Matsumaru</i>	T.Hirose
△	Nov.18.1999		<i>J. Fujisawa</i>	

1 . Principal Particulars of Diesel Engine

Standard	All items, unless otherwise specified, are in accordance with JIS and maker's standards
Model	Mitsubishi S6S-DT (MHI No. 32B00-06830)
Type	4 cycle water-cooled, vertical overhead valve, cylinder in line, direct injection type
Number of cylinders	6
Bore × Stroke	94mm × 120mm
Piston displacement	4.996 liters
Compression ratio	17:1
Rotation	Anti-Clockwise rotation as viewed from flywheel side
Firing order	1-5-3-6-2-4
Output(ISO 3046,With Fan) Total barometric pressure:100kpa Air tempetature:298K Relative humidity:30%	St-by ; 59.6kW(81PS)/1500rpm Prime ; 54.1kW(73.5PS)/1500rpm
Engine weight(Dry)	Approx. 355kgf
Dimensions(Length)	Approx. 1033mm
(Width)	Approx. 626mm
(Height)	Approx. 896mm
Fuel	ASTM diesel fuel oil No.2-D (JIS K2204 gas oil specification No.2 or 3)
Lubricating oil	API classification service CD class SAE No.30

Fuel consumption	Approx. 218g/kW · h(160g/PS · h) at standard air conditions
Oil consumption	Within 2.7g/kW · h(2.0g/PS · h)
Fuel injection timing	19°BTDC
Idling engine speed	1000±20rpm
Speed regulation	Steady state speed regulation at rated speed, within 5%
Mean effective pressure	0.86MPa(8.8kgf/cm ²)
Piston speed	6m/s at 1500rpm
Fuel injection pump	In-Line type
Fuel injection nozzle	Multi-Hole type
Fuel filter	Filtering paper type
Lubricating system	Forced lubrication by trochoid gear pump
Lubricating oil filter	Filtering paper type, full flow
Oil pressure	0.19~0.39MPa(2~4kgf/cm ²) at duty run 0.1MPa(1.0kgf/cm ²) min. at low idling
Oil capacity	12 liters (Oil pan 11 liters, high level,Oil filter etc. 1 liters)
Cooling system	Forced circulation of fresh water by centrifugal pump with thermostat
Engine water capacity	Approx. 8 liters

Alternator	12V - 50A
Voltage regulator	IC type (Built in alternator)
Starting system	Electric starting, Starting moter 12V-3.0kW, With heater plugs



Recommendatory Exhaust Back Pressure	Max 4kPa(30mm mercury)
Recommendatory Air Intake Resistance	0.98~1.96kPa(100~200mm water) (Initial stage)
Turbocharger	TE06H
Oil cooler	Plate type
Engine color	Black

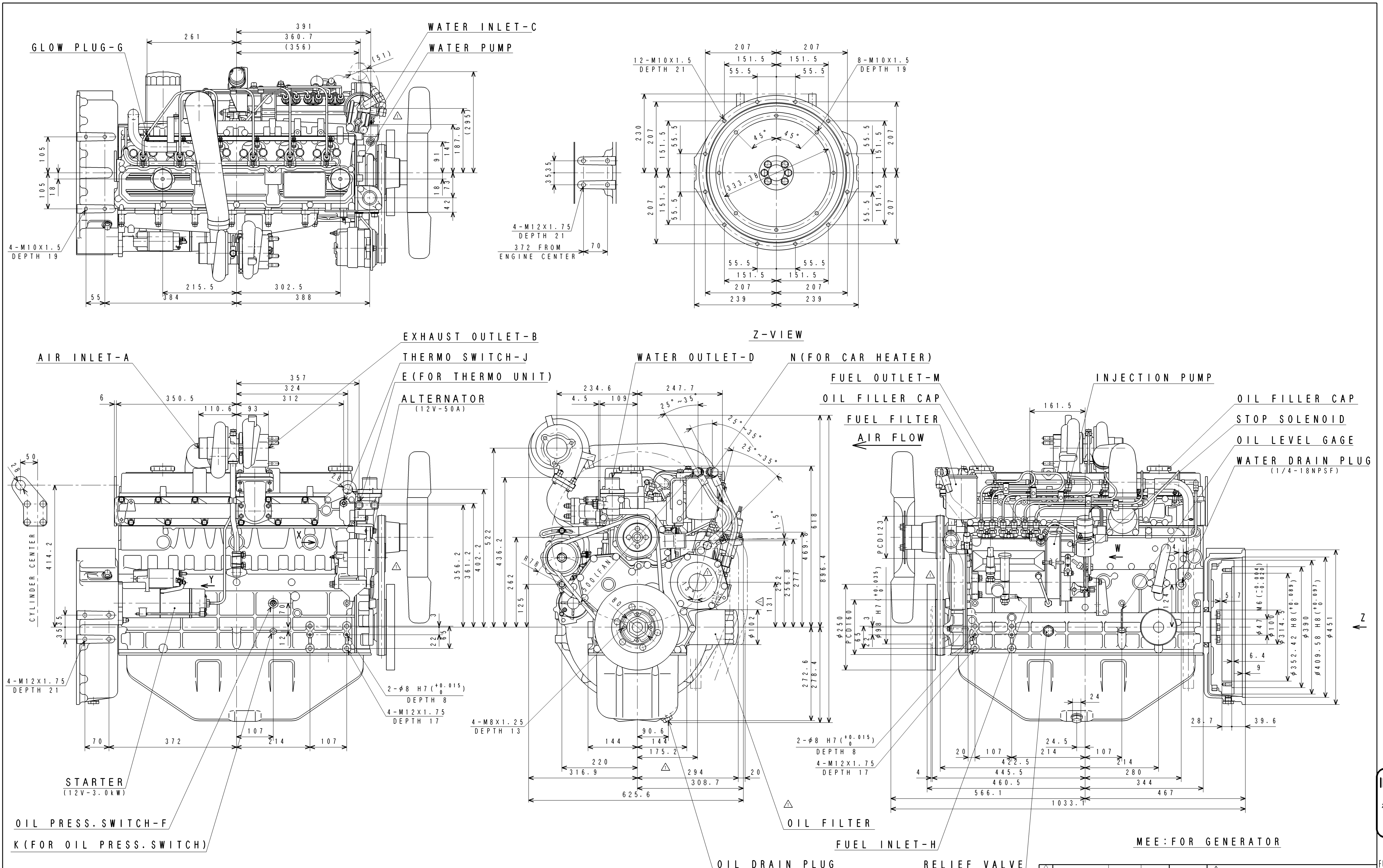
<Remarks>

①with Fan	(φ 500 Pusher, pulley ratio 1.3)
②	
③with Switch,Thermo	(MC880900 ... 1)
④with Switch,Oil Press.	(MC840219 ... 1)



2 .Accessories (Loose Supply)

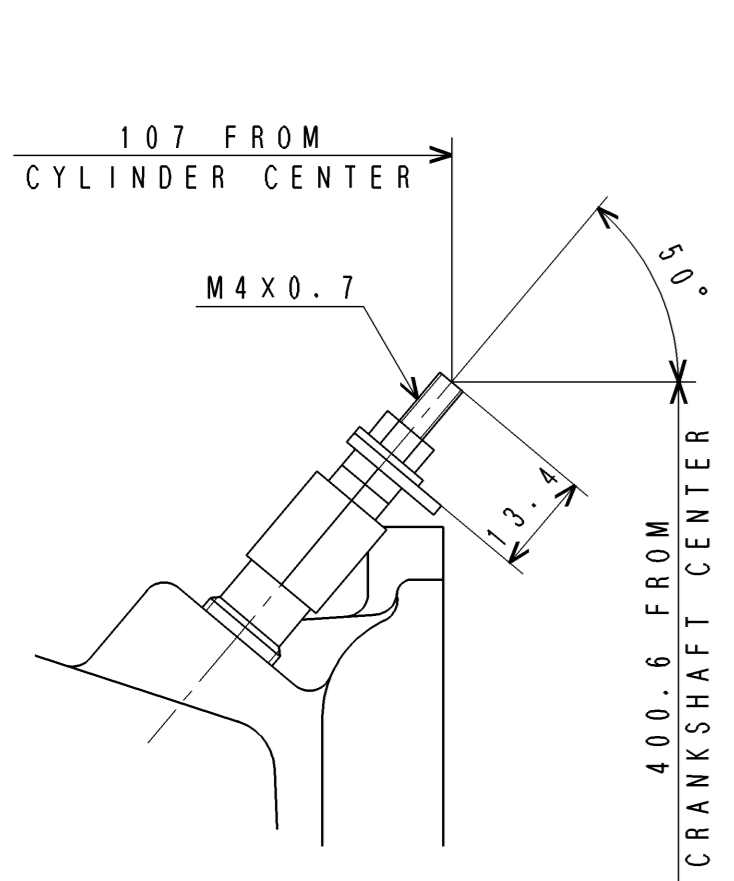
	Parts Name	Parts No.	Q'ty	Remarks	△
	1 SWITCH,OIL PRESSURE	MC840-219	1	Attached To Engine	A4
	2 SWITCH,THERMO	MC880-900	1		A4
△	3 STOP SOLENOID	32A87-06011	1		A4
△	4				
△	5				
△	6				
△	7				
△	8				
△	9				
△	10				



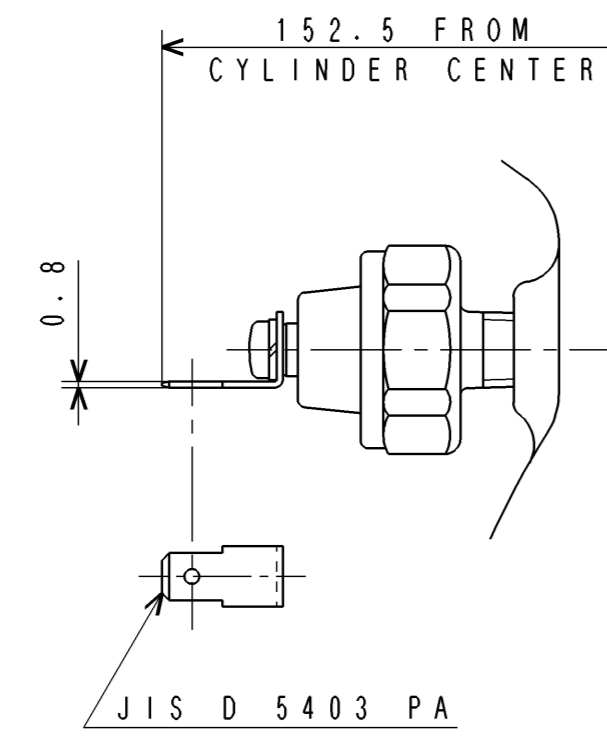
32A0-2754 99.11.17 A. KURO		DATE		CHK	
CHG	EO-NO	DATE	CHK		
APPRO	CHK	DATE	CHK		
T. Tsubota	S. KATAYAMA	Y. MATSUMARU	1999. 2. 25		
製図 (CM SH)			製図		
DRN T. HIROSE			DRN		
K. TAGAMI			K. TAGAMI		
1999. 2. 25					
図面番号		32B00-06830			
DRAWING NO.		1/2			



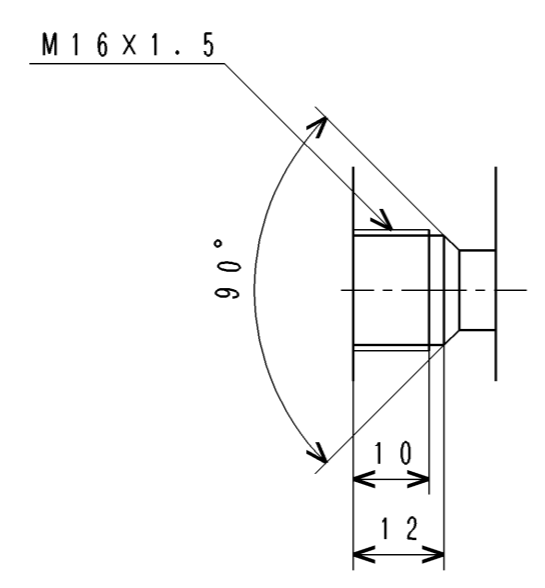
FULL-CAO



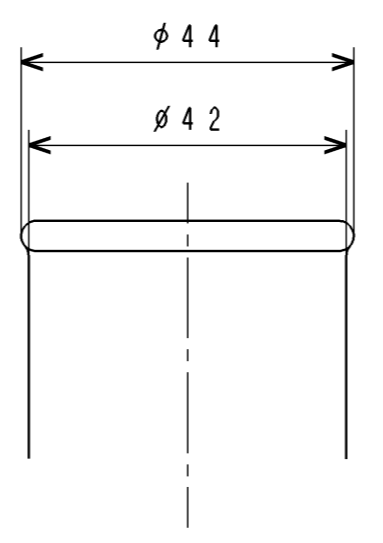
G-DETAIL



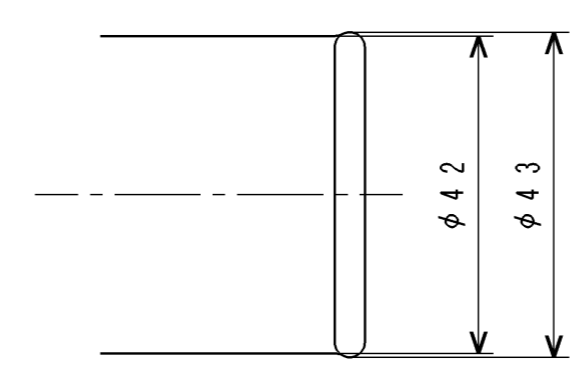
F-DETAIL



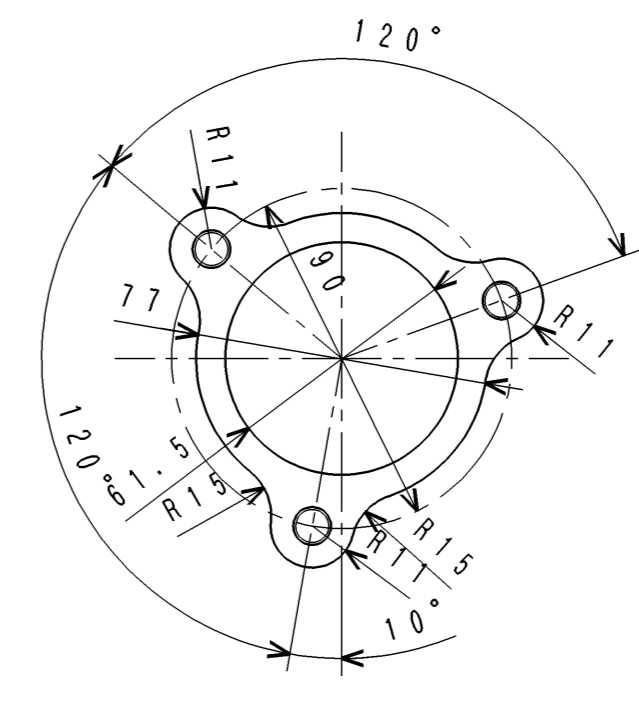
E-DETAIL



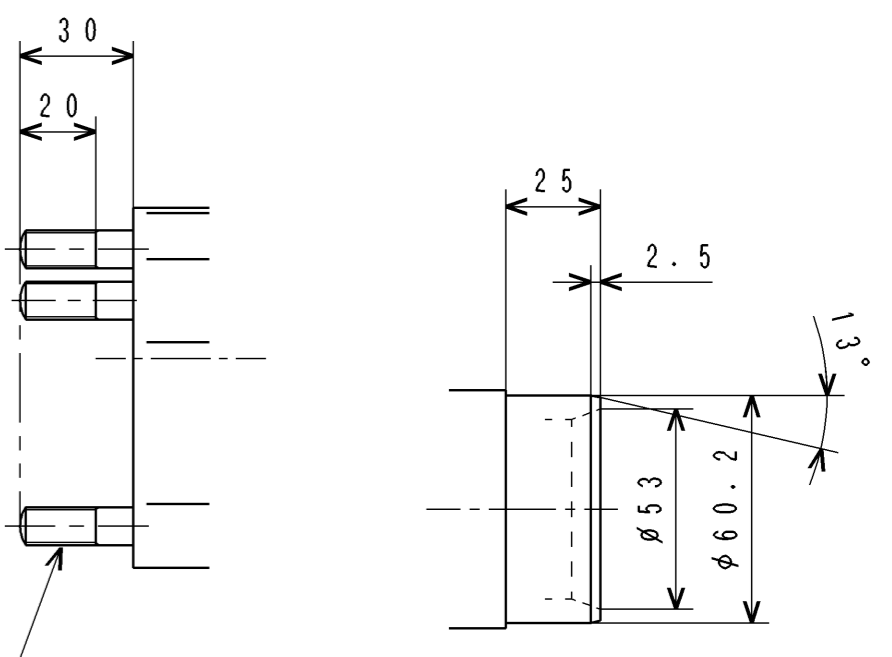
D-DETAIL



C-DETAIL

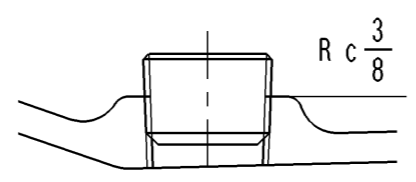


B-DETAIL (1:2)

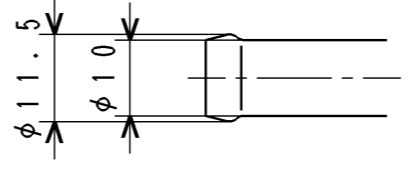


A-DETAIL (1:2)

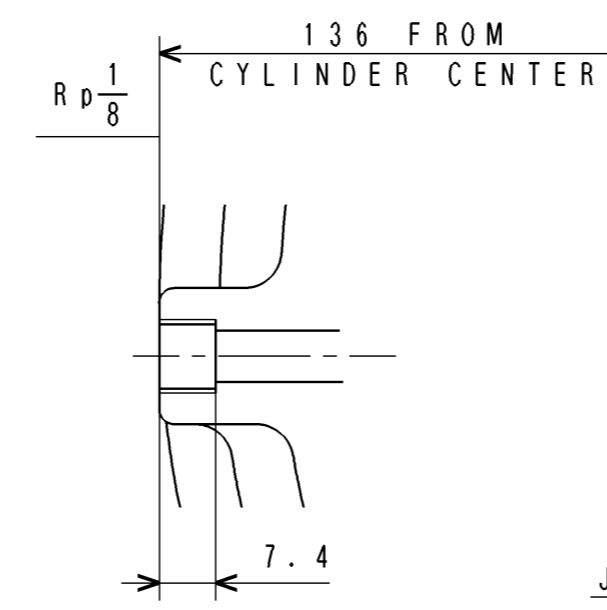
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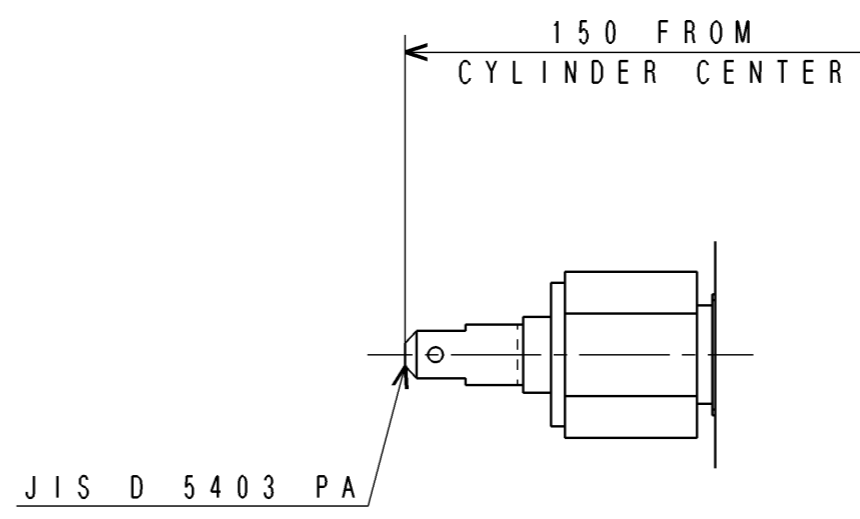
N-DETAIL



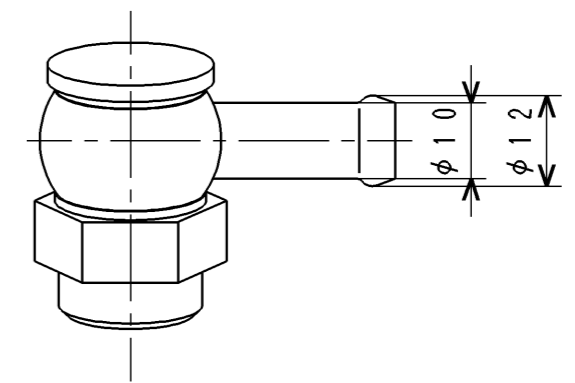
M-DETAIL



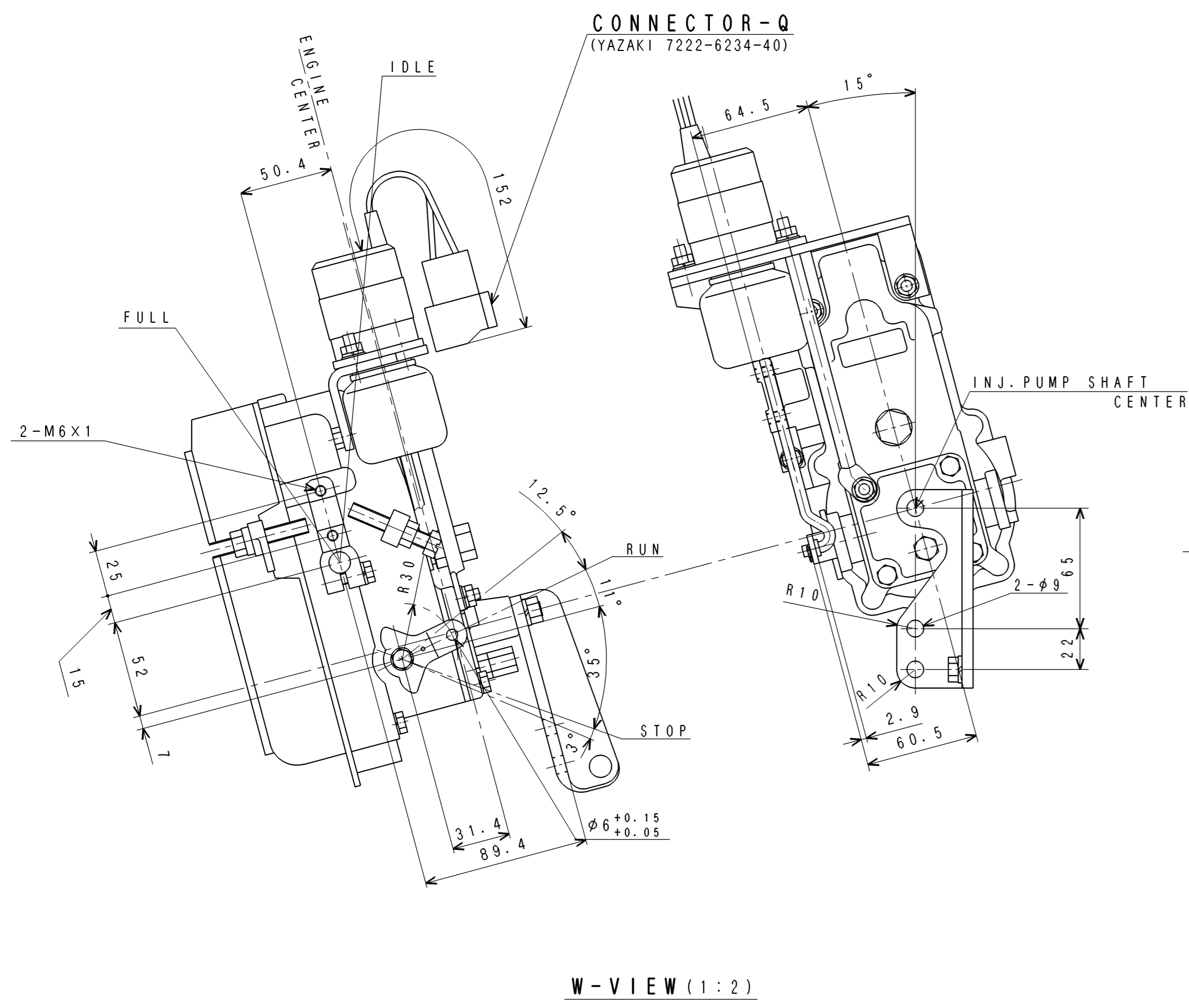
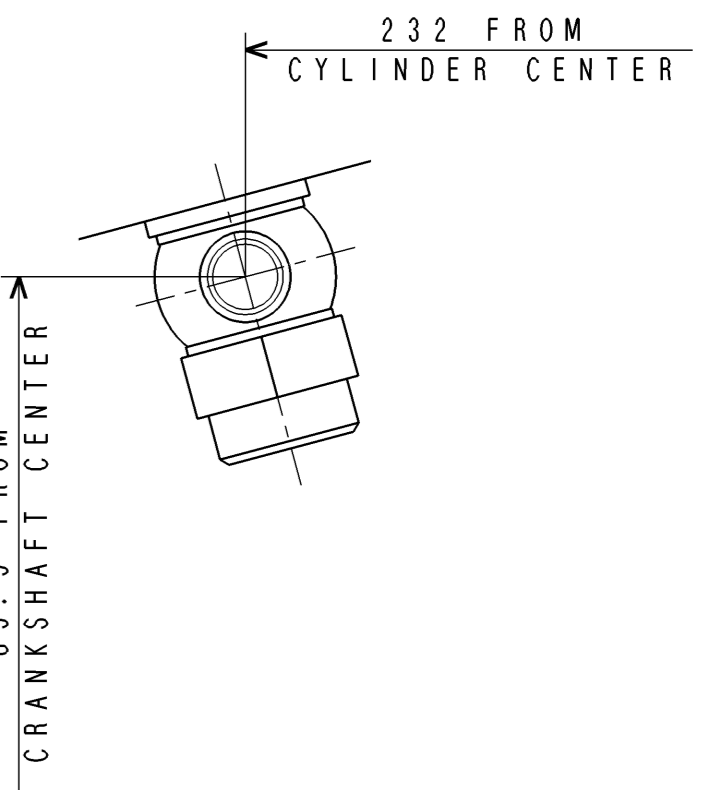
K-DETAIL



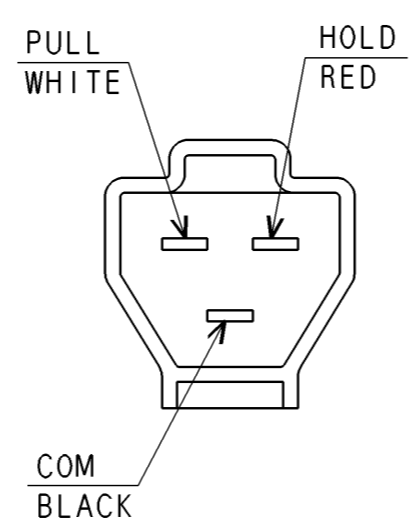
J-DETAIL



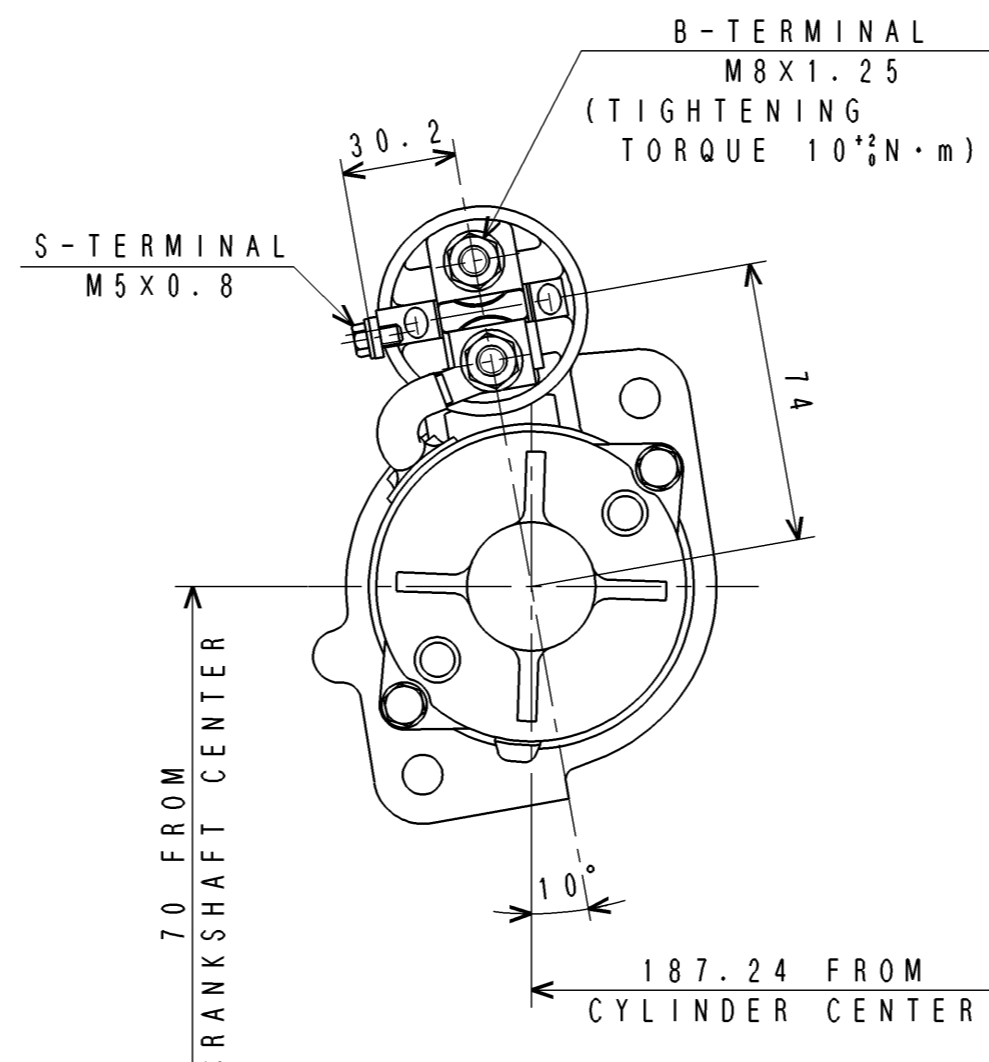
H-DETAIL



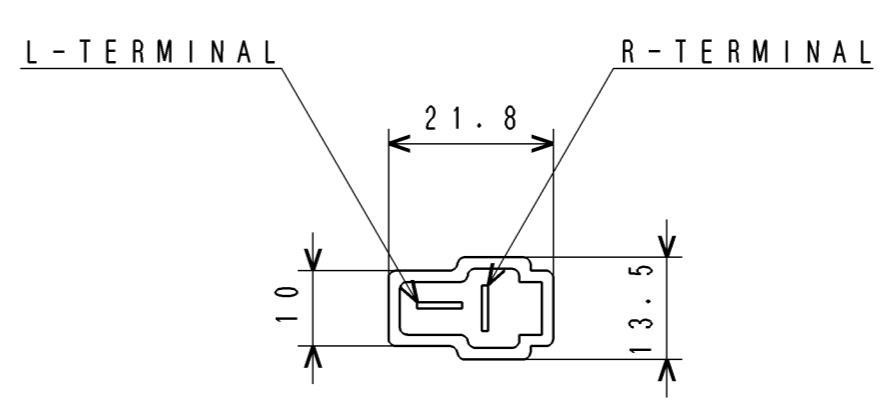
W-VIEW (1:2)



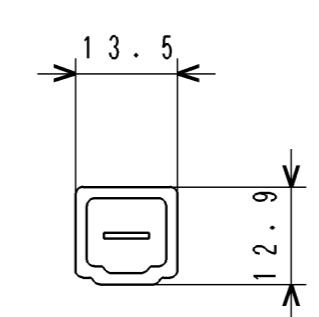
Q-DETAIL



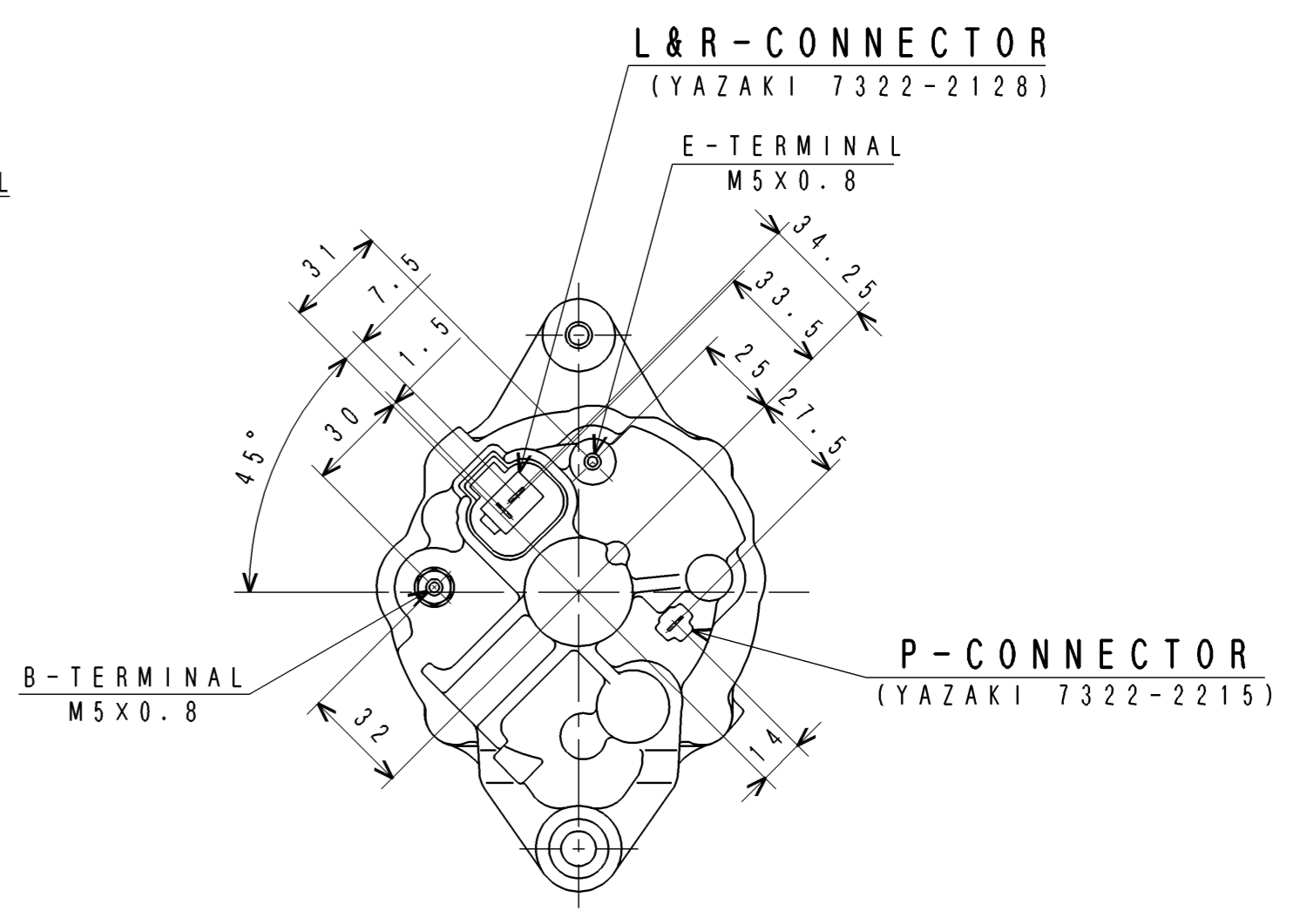
Y-VIEW (1:2)



L&R-DETAIL



P-DETAIL



X-VIEW (1:2)

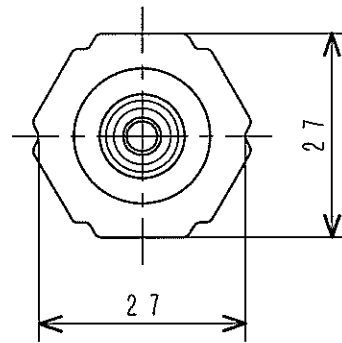
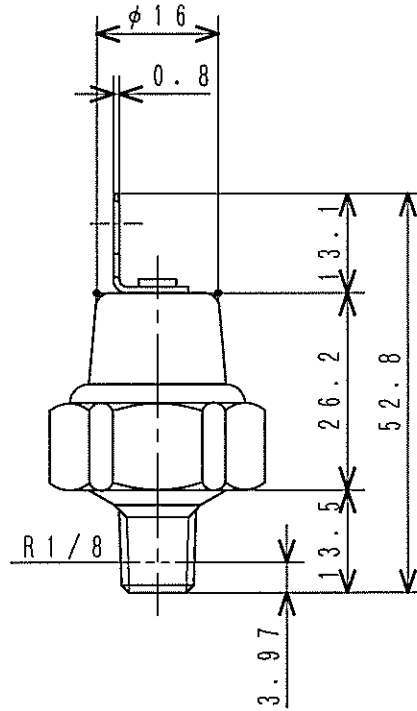
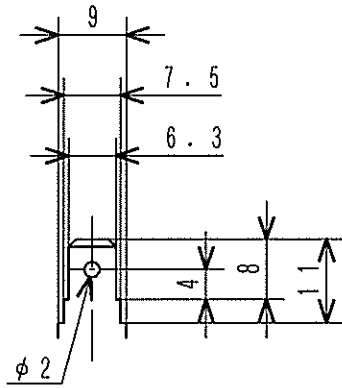
MEE: FOR GENERATOR

32A0-2754				99.11.17		A. KURO		3RD ANGLE PROJECTION		S6S-DT65SG ENG ASSY	
CHG				EO-NO		DATE		CHK		尺碼 SCALE	
1				3		1		1:1		三菱重工業株式会社相模原製作所	
SAGAMIHARA MACHINERY WORKS, MITSUBISHI HEAVY INDUSTRIES, LTD.				S. KATAYAMA		Y. MATSUMARU		T. HIROSE		K. TAGAMI	
T. Tsubota				S. KATAYAMA		Y. MATSUMARU		T. HIROSE		K. TAGAMI	
1999. 2. 25				1999. 2. 25		1999. 2. 25		1999. 2. 25		図面番号 32B00-06830	
DRAWING NO.				DRAWING NO.		DRAWING NO.		DRAWING NO.		2/2	

旧31
相製
1999
11.30

FULL-CAO

3 新図 4 訂正 5 相立図 6 印刷品 7 鋳造品 8 鍛造品 9 切削品 10 その他(購入品)



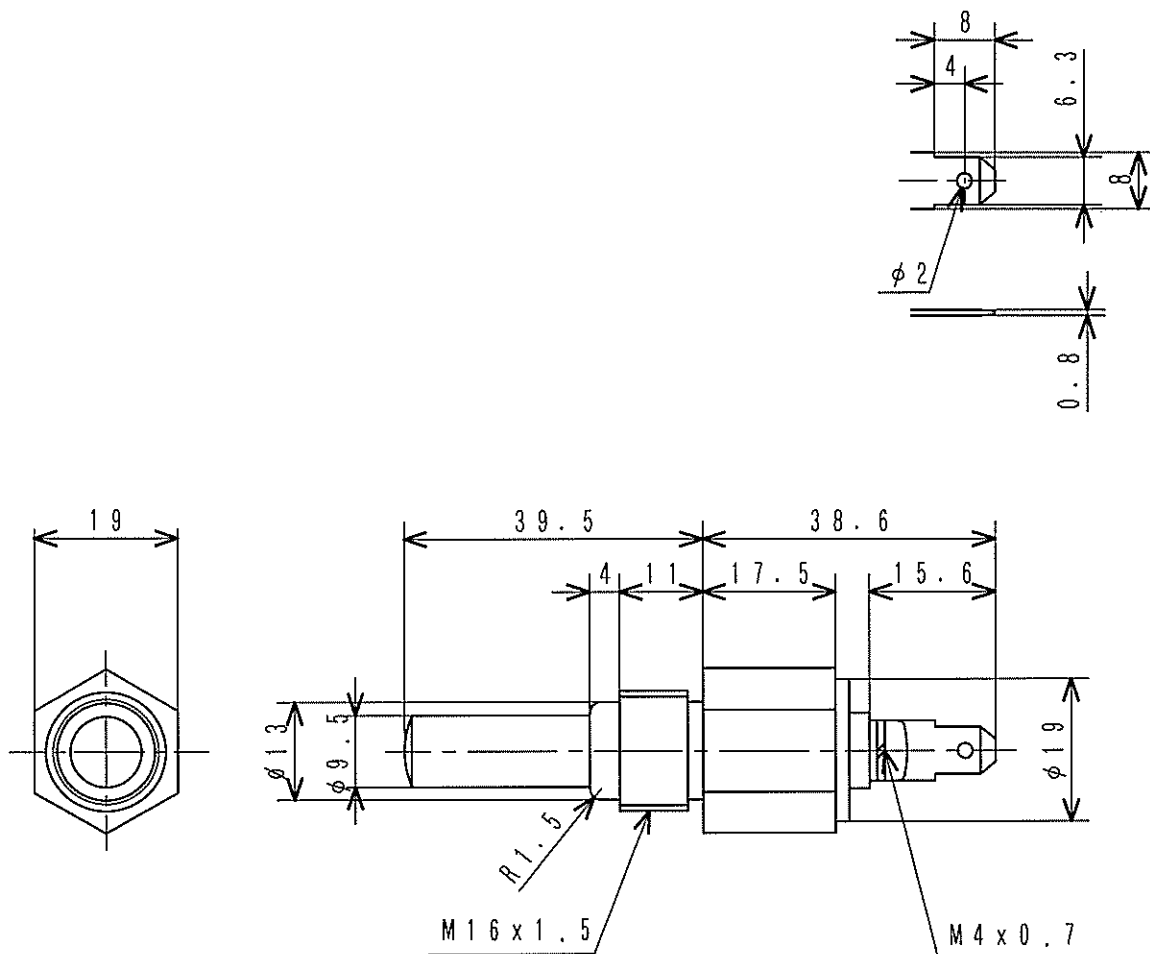
仕様
SPECIFICATIONS

作動圧力 OPERATING PRESS.	49 kPa {0.5 kgf/cm ² }
作動電圧 OPERATING VOLT.	12 V - 5 W 24 V - 5 W

オイルプレッシャースイッチ

SWITCH, OIL PRESSURE

MC840-219

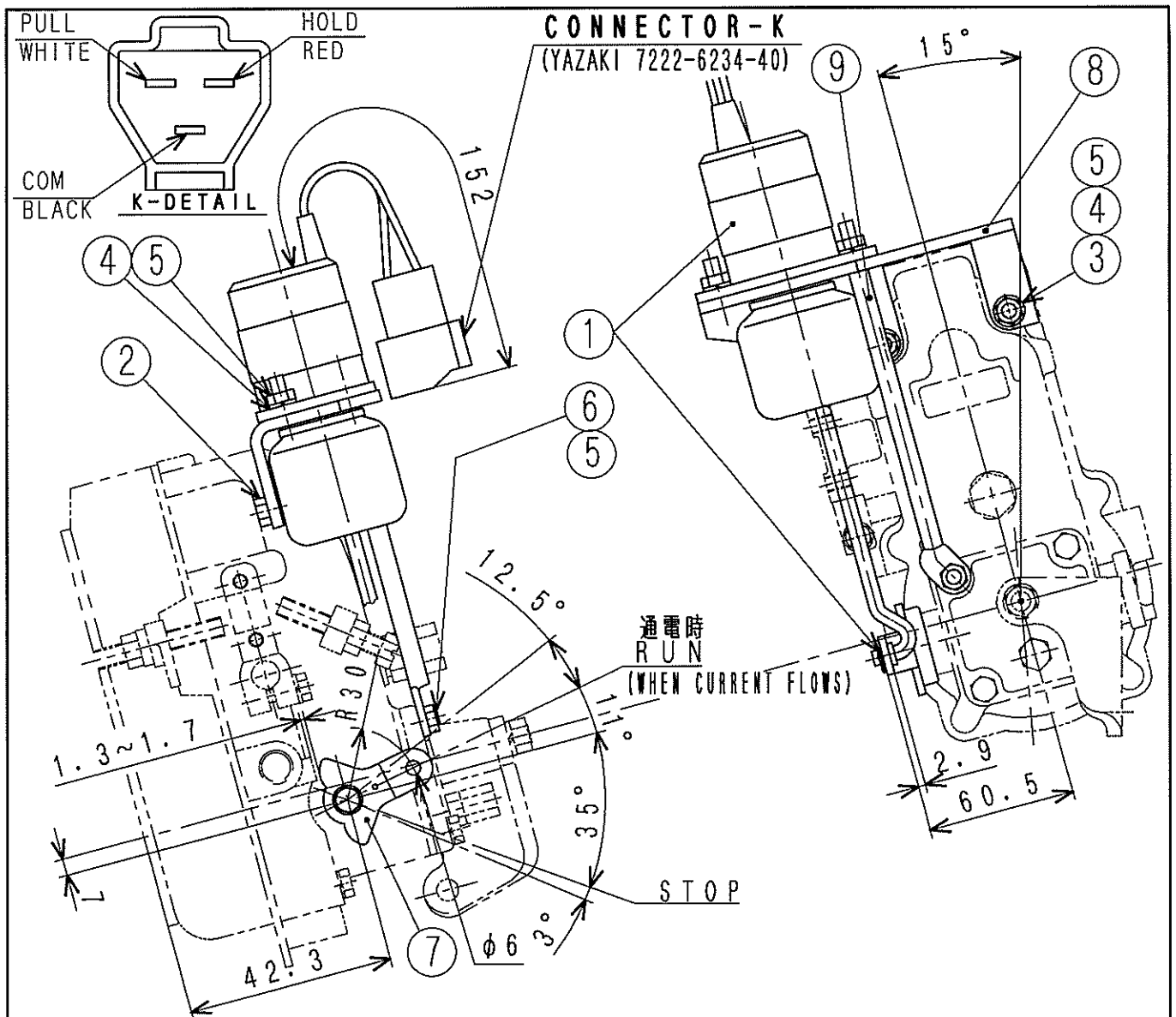


部品番号 PART No.	作動温度 OPERATING TEMP.		
MC880-900	温度下降時 DECREASE	$\leq 100^{\circ}\text{C} \pm 4^{\circ}\text{C}$	で接点開 OPEN
	温度上昇時 RISE	$\geq 100^{\circ}\text{C} \pm 2^{\circ}\text{C}$	で接点閉 CLOSE
MC880-901	温度下降時 DECREASE	$\leq 105^{\circ}\text{C} \pm 4^{\circ}\text{C}$	で接点開 OPEN
	温度上昇時 RISE	$\geq 105^{\circ}\text{C} \pm 2^{\circ}\text{C}$	で接点閉 CLOSE

定格負荷 RATED LOADED	1A以上 MIN.	0.5A以上 MIN.
定格電圧 RATED VOLT.	12V	24V

サーモスイッチ
SWITCH, THERMO

MC880-900
MC880-901



- 1) このソレノイドはRUN-ONタイプである。
- 2) スターターのS端子にPULL COILの配線を行わないこと。
- 3) スターターの起動前にSTOPレバーがRUNの位置にあることを確認のこと。
- 4) バッテリー条件、配線抵抗によってはソレノイドが引けない場合があり、注意のこと。
- 5) ETRソレノイド組付け後、作動確認を実施する。
- 6) 図の通り、ソレノイド通電時のストップレバーとガバナケースの隙間を確認する。

- 1) THIS SOLENOID IS A RUN-ON TYPE.
- 2) NO PERMITTED TO USE S-TERMINAL (STARTER) IN THE PULL COIL CIRCUIT.
- 3) BEFORE CLOSING STARTER CIRCUIT, STOP LEVER MUST BE ENERGIZED TO 'RUN' POSITION.

推奨併用吸引コイル タイマーリレー
RECOMMENDATORY PULL IN COIL TIMER RELAY:31A66-06100

- 4) PLEASE NOTE THAT BATTERY CONDITION AND CABLE RESISTANCE AFFECT THE STOP LEVER MOVEMENT.
- 5) EXECUTE THE OPERATION CONFIRMATION WHEN YOU ASSEMBLE THE ETR SOLENOID.
- 6) CONFIRM THE SPACE BETWEEN THE STOP LEVER AND GOVERNOR CASE WHEN THE SOLENOID ENERGIZES AS SHOWN IN FIGURE.

9	32A87-05400	ROD, SUPPORT	1
8	32A87-05300	BRACKET	1
7	32A87-05700	LEVER, STOP	1
6	32A87-05600	STUD	1
5	F2300-06000	NUT	5
4	F2515-06000	WASHER, SPRING	4
3	F2500-06000	WASHER, PLAIN	2
2	34287-02603	STUD	2
1	32A87-17010	SOLENOID ASSY(12V)	1
SYM	PART No.	PART NAME	QTY

定格電圧 RATED VOLTAGE	12V
作動温度 OPERATING TEMPERATURE	-30°C~90°C
吸引電流 PULL COIL CURRENT	55A (at 20°C) (CONTINUOUS TIME:MAX 3 SECOND)
保持電流 HOLD COIL CURRENT	1.1A (at 20°C)

ストップソレノイド
STOP SOLENOID KIT (ETR) SS 32A87-06011