

CUSTOMER	
SHIP NO.	
BUILDER	

Mark	Engine Type	Turbocharger Type	X: Apply	
			Tier2	Tier3
01	6UEC35LSJ	MET 42MB/-EGB×1	x	
		MET 37MB/-EGB×1	x	
		MET 33MB/-EGB×1	x	
02	6UEC35LSJ-LPSCR	MET 42MB-EGB×1		x
		MET 37MB-EGB×1		x
		MET 33MB-EGB×1		x

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JAPAN ENGINE CORPORATION AGREES WITH WRITTEN MATERIALS.

DESTINATION	SERIAL NO.	MODEL	6UEC35LSJ/-LPSCR	
	ORDER NO.	諸管線図集 PIPING DIAGRAM		
	ENGINEERING DEPARTMENT			
	APPROVED 江戸			
	CHECKED 永嶋 吉川			
	DRAWN 甘利			
DATE May.21, 2021	DRAWING NO.	U7-0E164		REV.
SHEETS 23 (with cover)	SHEETS			F
Total				

諸管線図名称

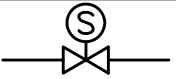

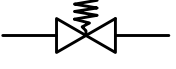
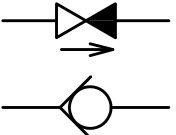
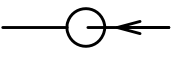
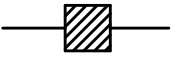
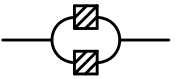

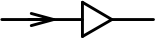

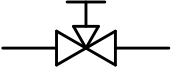
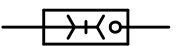
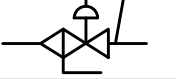
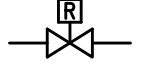
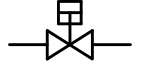
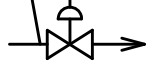


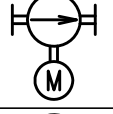
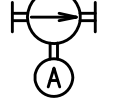
Name of piping diagram


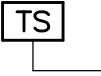
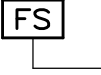
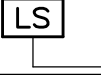

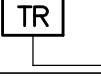
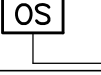

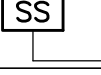
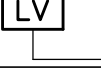


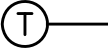
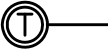
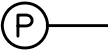


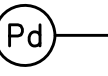
<u>U7-0E164</u>		Starting air 始動空気管線図
" "		Fuel oil 燃料油管線図
" "		Lubricating oil 潤滑油管線図
" "		Piston cooling oil ピストン冷却油管線図
" "		Hydraulic supply oil 油圧作動油管線図
" "		Actuator oil for exhaust valve 排気弁駆動油管線図
" "		Cylinder lubricating oil シリンダ注油管線図
" "		Turbocharger lubricating oil 過給機潤滑油管線図
" "		Cylinder cooling water (With bypass pipe Ver.) シリンダ冷却水管線図(バイパス管仕様)
" "		Air cooler cooling water 空気冷却器冷却水管線図
" "		Stuffing box drain and piston under drain ピストン棒パッキン箱ドレン管及びピストン下部ドレン管線図
" "		Scavenging air trunk drain 掃気トランクドレン管線図
" "		Turbocharger and air cooler washing 過給機, 空気冷却器洗浄水管線図
" "		Fire extinguishing 掃気室火災消火装置管線図
" "		Water injection system 注水管線図


SYMBOLS FOR MAIN ENGINE PIPING DIAGRAM

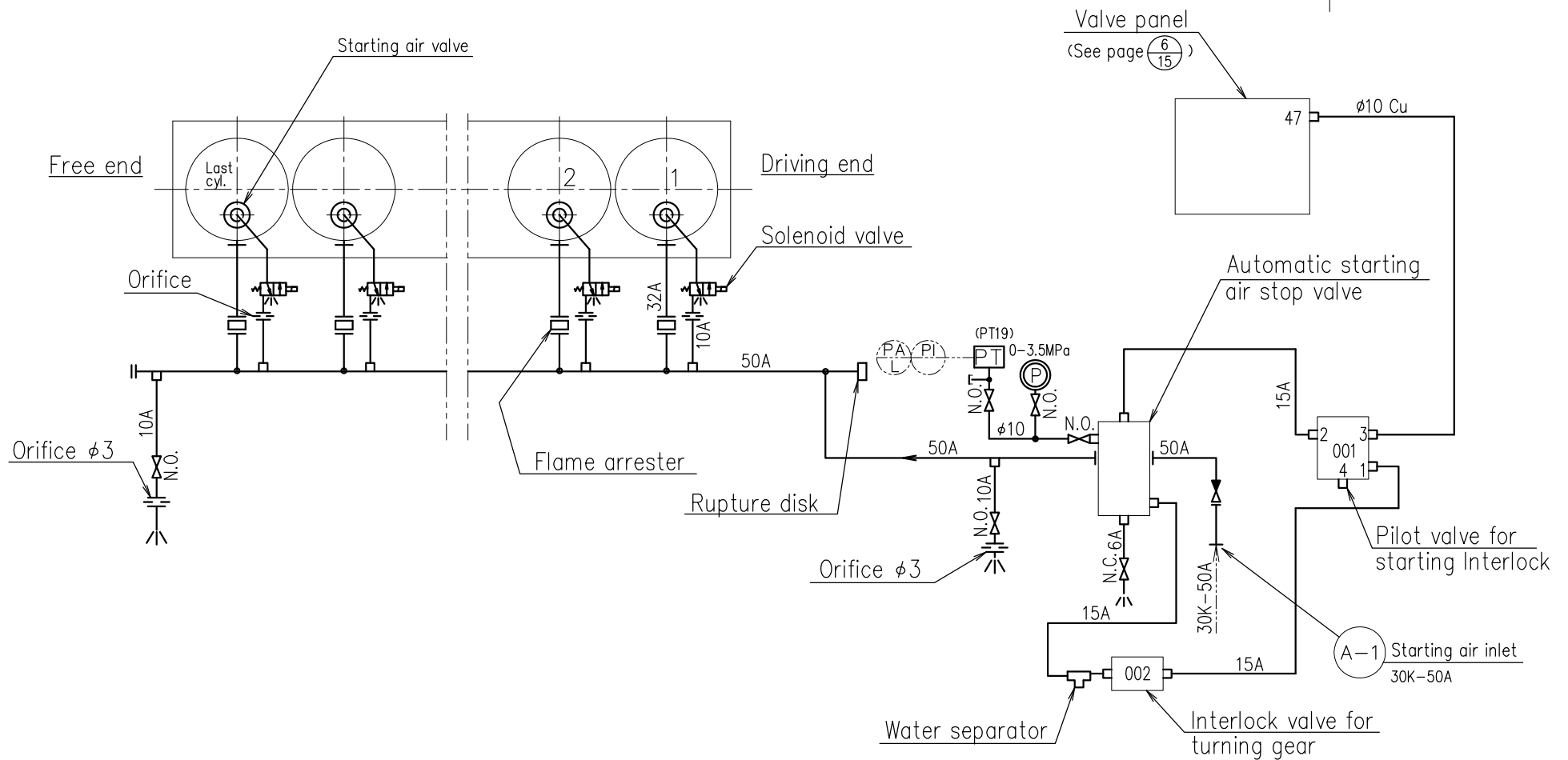
主 機 関 諸 管 線 図 記 号

SYMBOLS 記 号	NAME	名 称	REMARKS 備 考
	<u>Nominal inner diameter</u>	<u>称 呼 口 径</u>	
	Crossing pipes, connected	連 結 管	
	Crossing pipes, not connected	不 連 結 管	
	To bilge	ビ ル ジ ヘ	
	Boss	ボ ス	
	Boss with plug	プ ラ グ 付 ボ ス	
	Joint, bossed	ボ ス 継 手	
	Joint, flanged	フ ラ ン ジ 継 手	
	Blind flange	閉 止 フ ラ ン ジ	
	Orifice	オ リ フ ィ ス	
	Flexible pipe	フ レ キ シ ブ ル パ イ プ	
	Hopper	ホ ッ パ ー	
	Hopper with cover	ふ た 付 ホ ッ パ ー	
	Air vent pipe	空 気 抜 管	
	Siphon	サ イ フ ォ ン	
	Air chamber	エ ア チ ャ ン バ ー	
	Seal pot	シ ー ル ポ ッ ト	
	Stop valve	止 め 弁	
	Butterfly valve	バ タ フ ラ イ 弁	
	Three-way cock	三 方 コ ッ ク	(1) T形 (T-PORT) (2) L形 (L-PORT)

SYMBOLS 記号	NAME	名称	REMARKS 備考
	Solenoid operated valve	電磁弁	
	Gate valve	仕切弁	
	Safety valve	安全弁	
	Check valve	逆止弁	
	Sight glass	サイトグラス	
	Simplex strainer	単式コシ	
	Duplex strainer	復式コシ	
	Y type strainer	Y形ストレーナ	
	Reducer	レジュース	
	Hose coupling	ホース継手	
	Regulating valve	自動調整弁	
	Self-seal joint	セルフシール継手	
	Filter and regulator	フィルタ及び調圧弁	
	Remote control valve	遠隔制御弁	
	Control valve	制御弁	
	Back pressure valve	背圧弁	
	Regulator	レギュレータ	
	Drain separator (with auto drain)	ドレンセパレータ (オートドレン付き)	
	Electric driven pump	電動ポンプ	
	Air driven pump	エア駆動ポンプ	

SYMBOLS 記号	NAME	名称	REMARKS 備考
	Pressure switch	圧力スイッチ	
	Temperature switch	温度スイッチ	
	Float switch	フロートスイッチ	
	Limit switch	リミットスイッチ	
	Pressure transmitter	圧力トランスミッター	
	Temperature sensor	温度センサ	
	O ₂ concentration sensor	O ₂ 濃度センサ	
	Mist sensor	ミストセンサ	
	Smoke sensor	スモークセンサ	
	Oil or water level sensor	液面レベルセンサ	
	Differential pressure switch	差圧スイッチ	
	Oil mist detector	オイルミスト警報装置	
Bar type 	Thermometer	温度計	
Dial type 			
Engine side 	Pressure gauge	圧力計	
on Gauge board 			
	U Tube manometer	U字管式圧力計	
	Differential pressure gauge	差圧計	

SYMBOLS 記号	NAME	名称	REMARKS 備考
	Remotely indicated	遠隔指示計	
PI	Pressure indication	圧力指示	
PA	Pressure alarm	圧力警報	
DPA	Differential pressure alarm	差圧警報	
PSD	Pressure slow down	圧力減速	
TI	Temperature indication	温度指示	
TA	Temperature alarm	温度警報	
TE	Temperature emergency stop	温度危急停止	
TSD	Temperature slow down	温度減速	
LI	Level indication	液面指示	
LA	Oil or water level alarm	液面指示	
FI	Flow indication	流れ指示	
FA	Flow alarm	流れ警報	
FSD	Flow slow down	流れ減速	
OI	O ₂ concentration indication	O ₂ 濃度指示	
OA	O ₂ concentration alarm	O ₂ 濃度警報	
MSA	Mist alarm	ミスト警報	
ASD	Auto slow down	自動減速	
pHIA	pH indication, alarm	pH指示、警報	
DIA	Density indication, alarm	比重指示、警報	

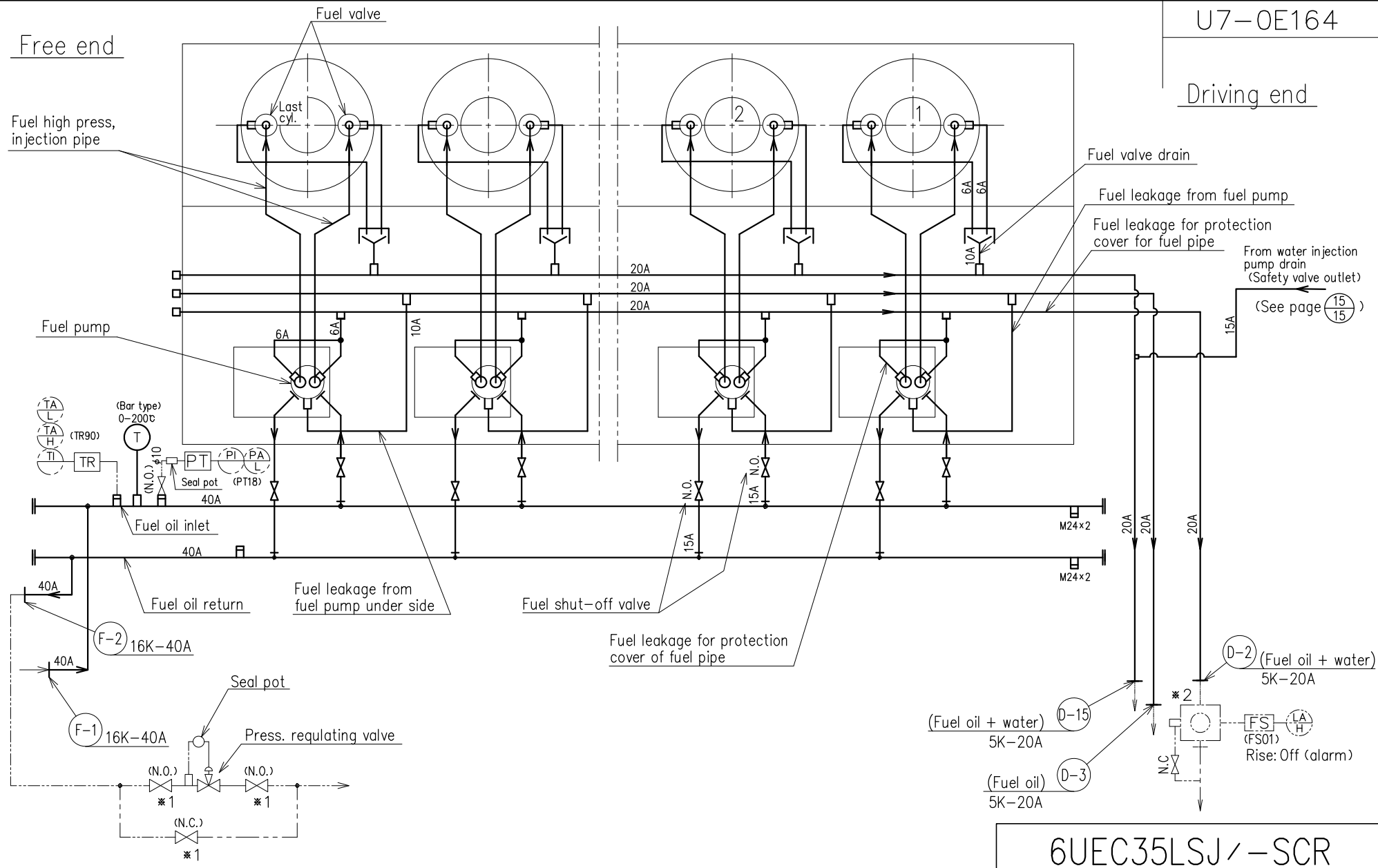


6UEC35LSJ/SCR

PIPING DIAGRAM OF
STARTING AIR

始動空气管線図

Free end

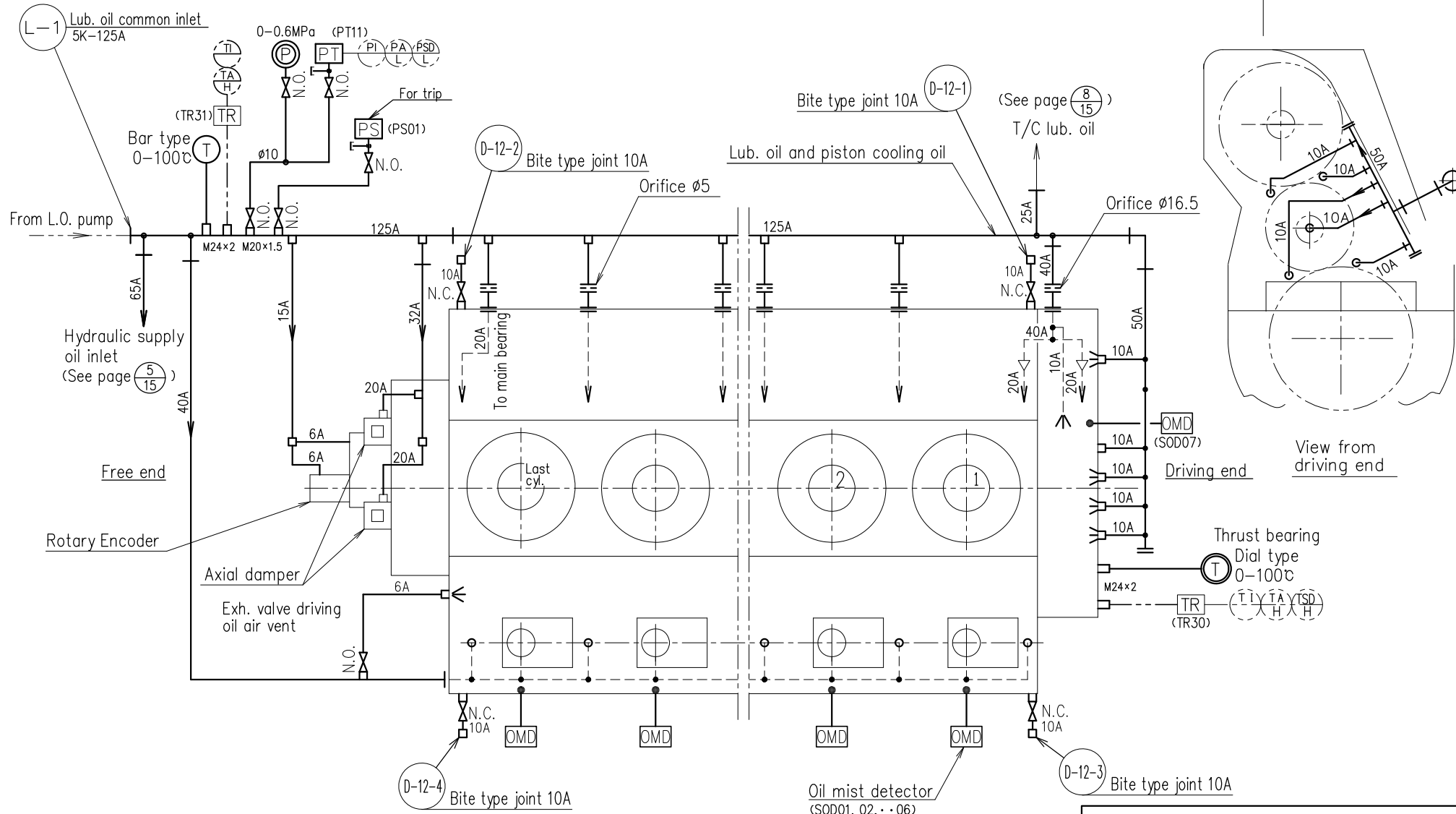


※ 1, ※ 2 Supplied by shipyard.
造船所殿所掌

6UEC35LSJ/SCR

PIPING DIAGRAM OF
FUEL OIL

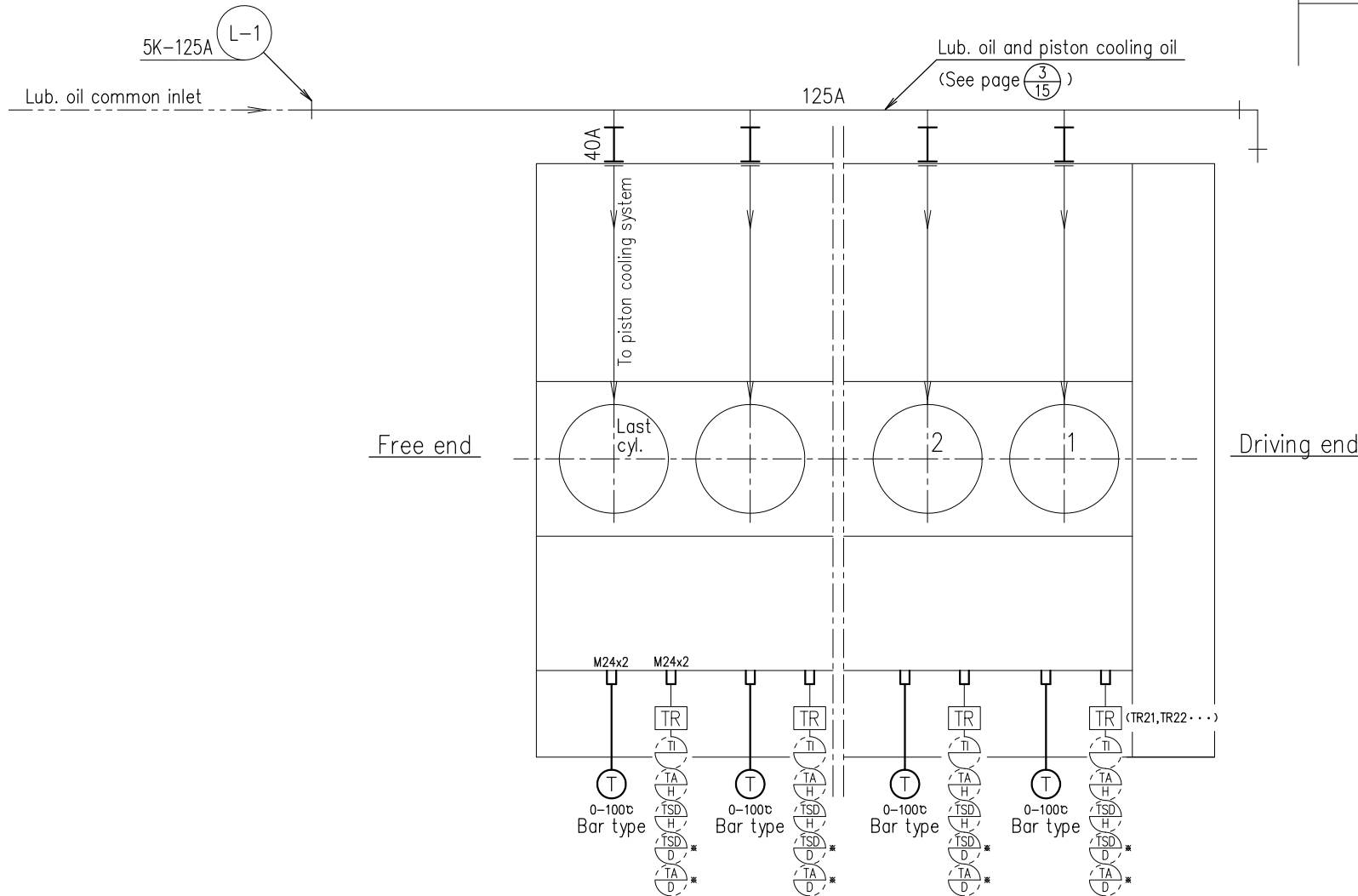
燃料油管線図



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PIPING DIAGRAM OF LUBRICATING OIL

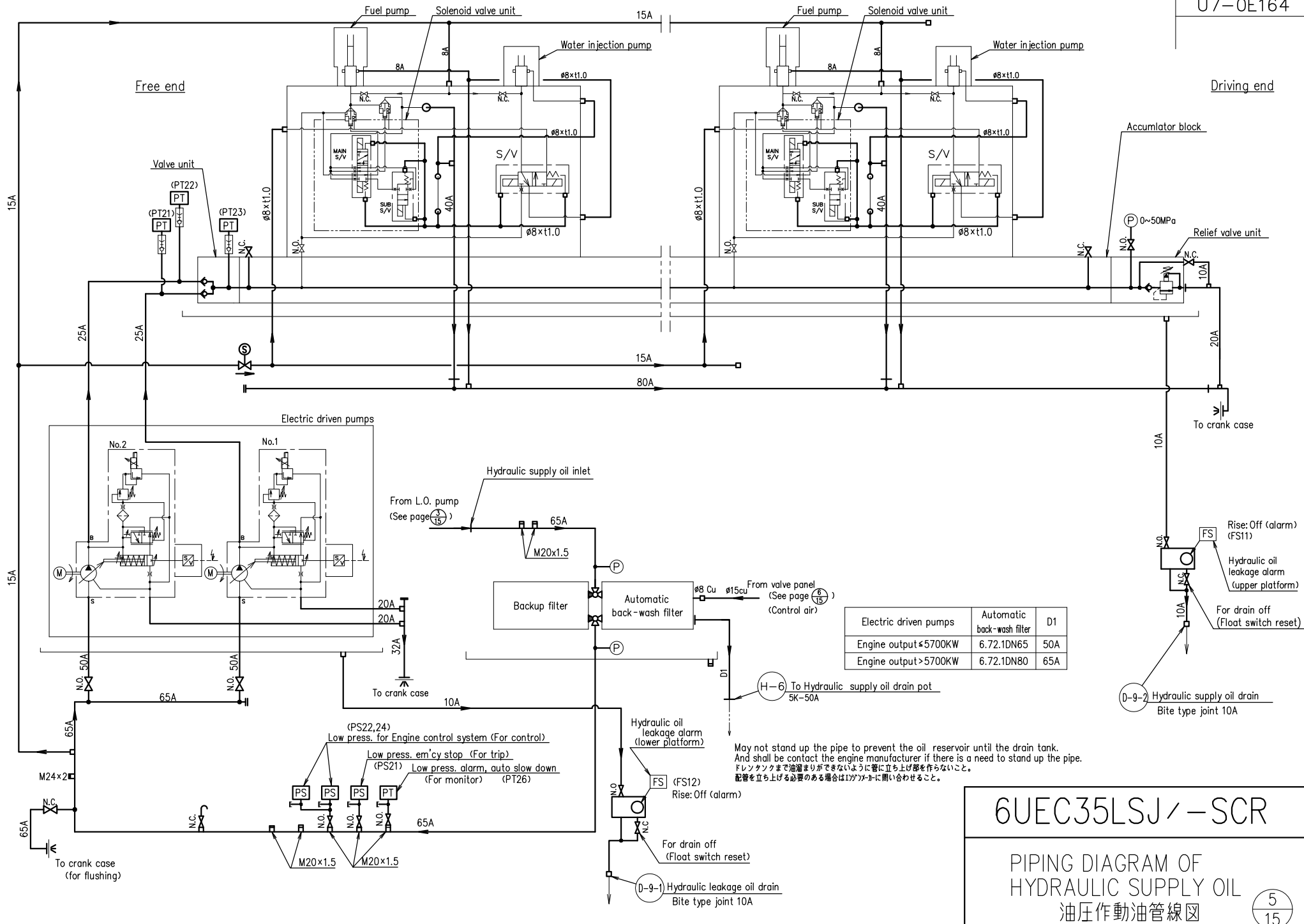
潤滑油管線図



* As alternative to piston coolant flow sensor of each piston.

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PIPING DIAGRAM OF
PISTON COOLING OIL
ピストン冷却油管線図線



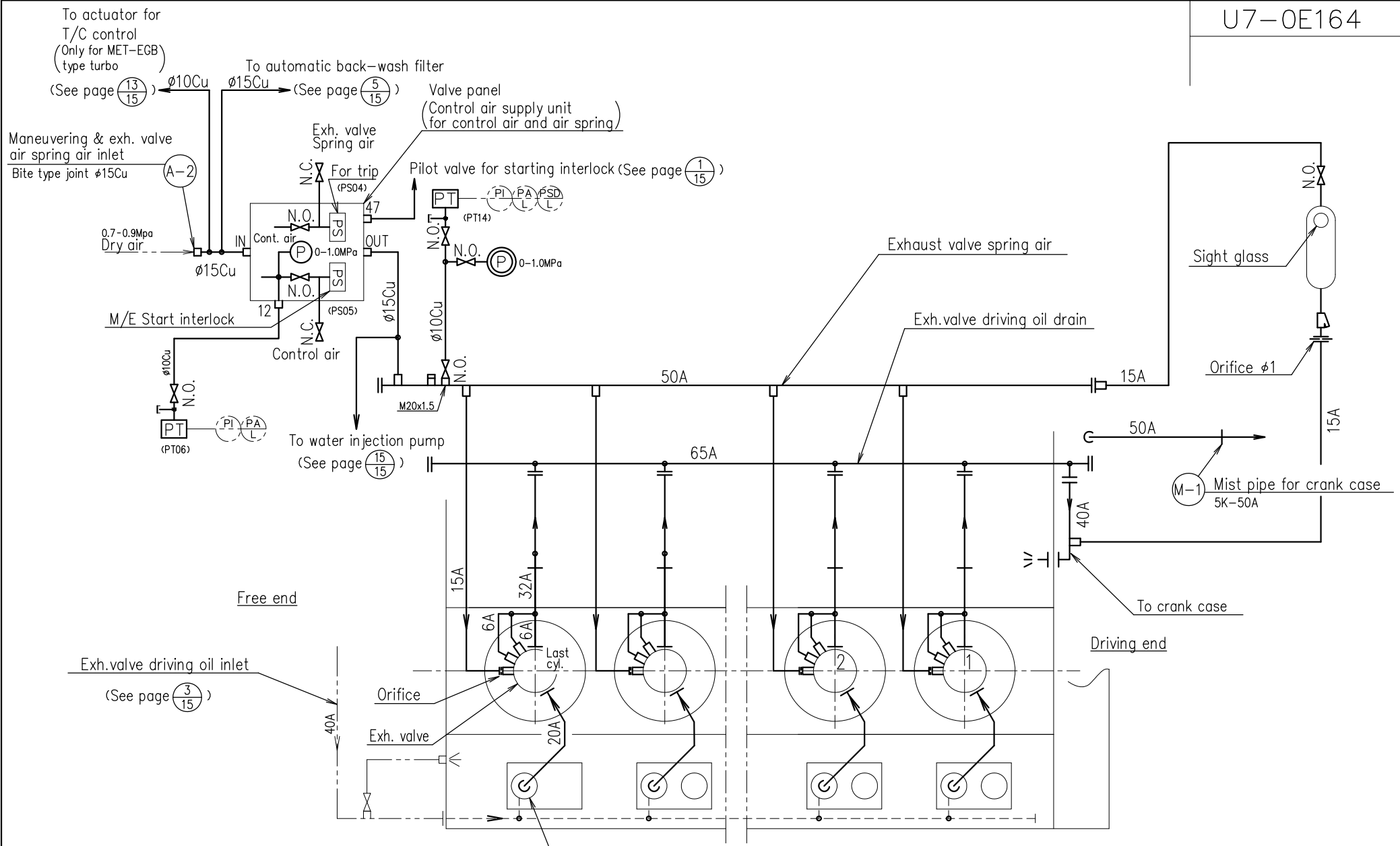
Electric driven pumps	Automatic back-wash filter	D1
Engine output ≤ 5700KW	6.72.1DN65	50A
Engine output > 5700KW	6.72.1DN80	65A

May not stand up the pipe to prevent the oil reservoir until the drain tank. And shall be contact the engine manufacturer if there is a need to stand up the pipe.
 フレンタンクまで油溜まりができないように管に立ち上げ部を作らないこと。
 配管を立ち上げる必要がある場合は1/4"メーカに問い合わせること。

6UEC35LSJ/SCR

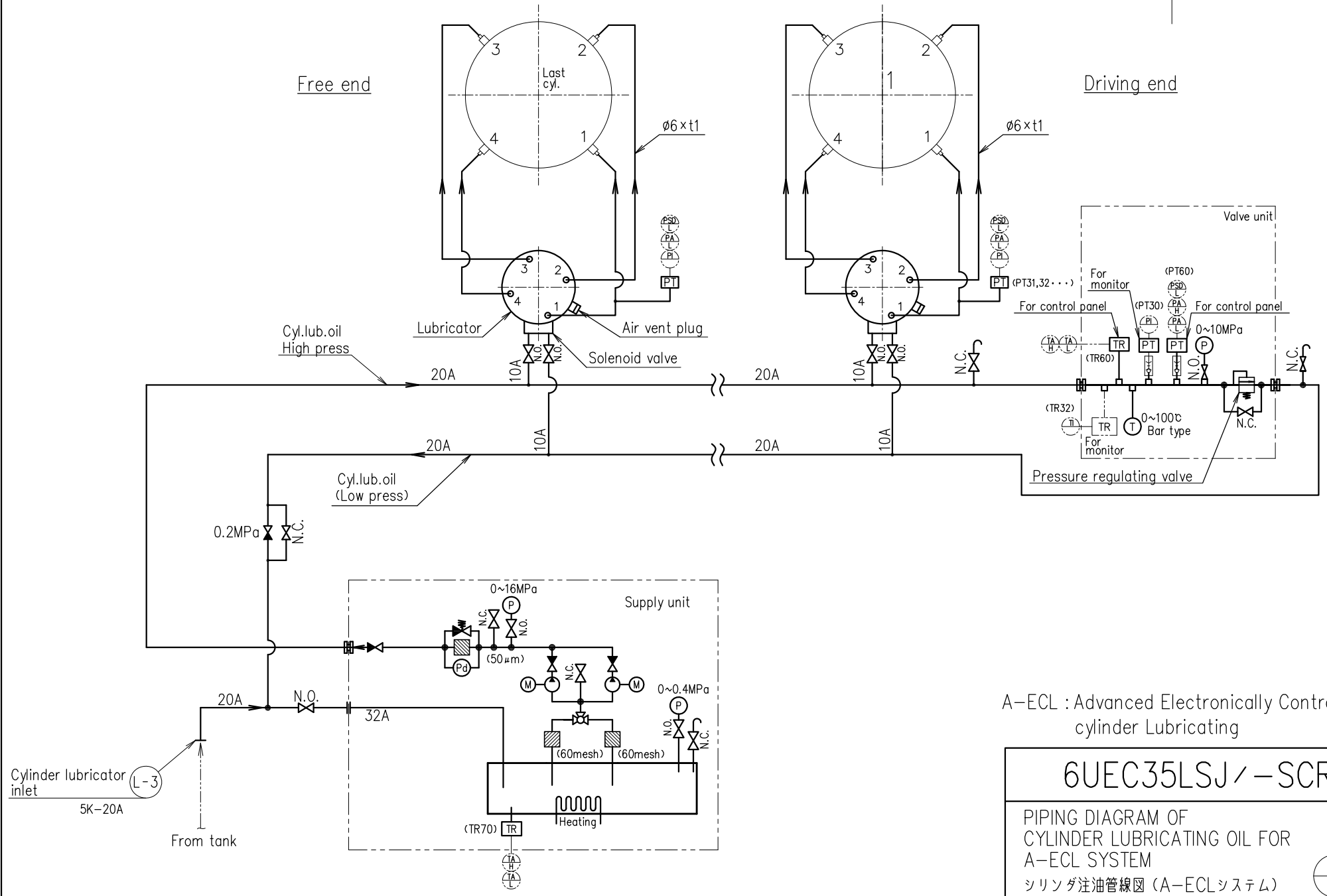
PIPING DIAGRAM OF
HYDRAULIC SUPPLY OIL
油圧作動油管線図

5
15



6UEC35LSJ / -SCR

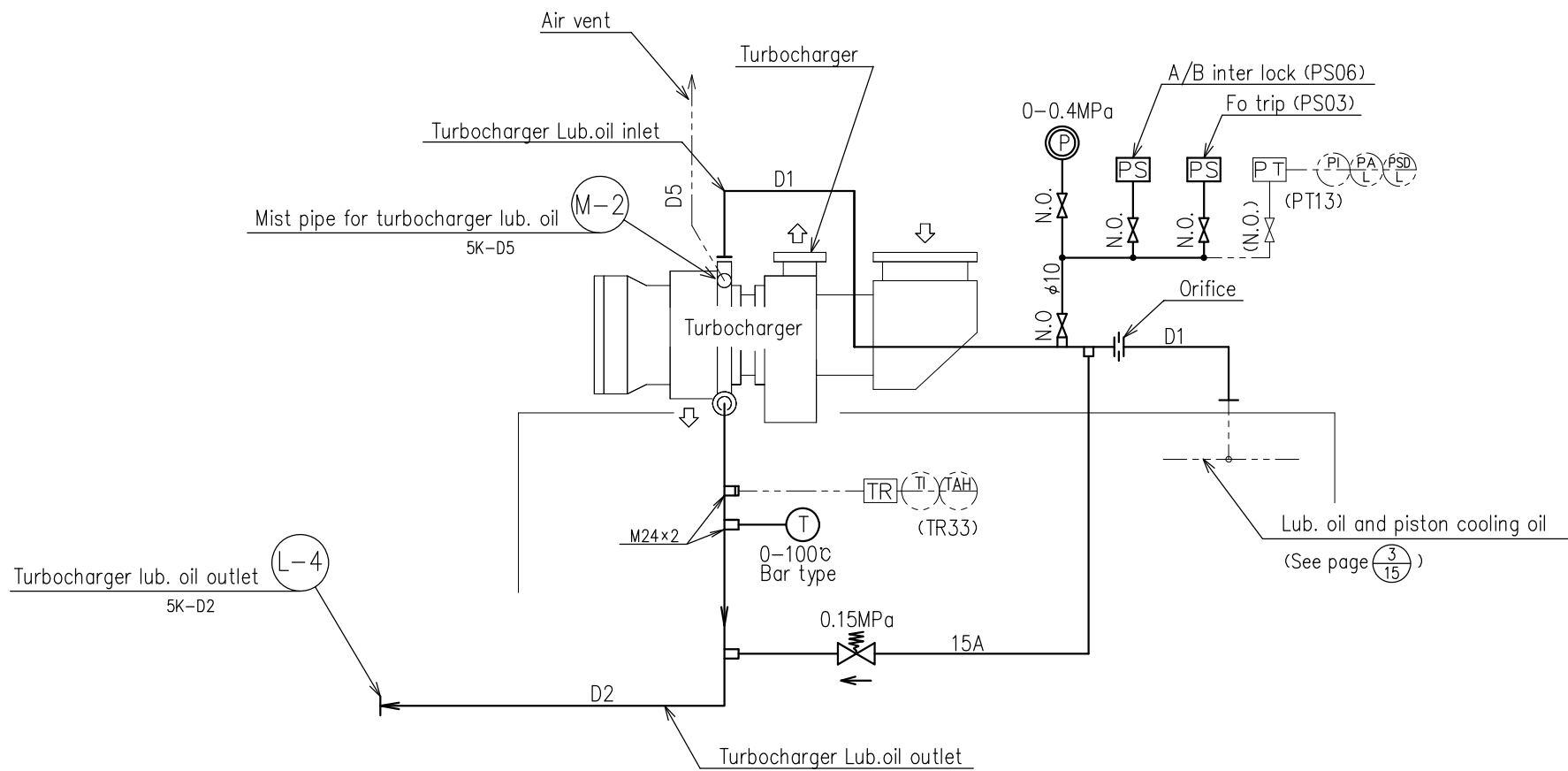
PIPING DIAGRAM OF ACTUATOR OIL FOR EXH. VALVE
 排气弁駆動油管線図



A-ECL : Advanced Electronically Controlled cylinder Lubricating

6UEC35LSJ / -SCR

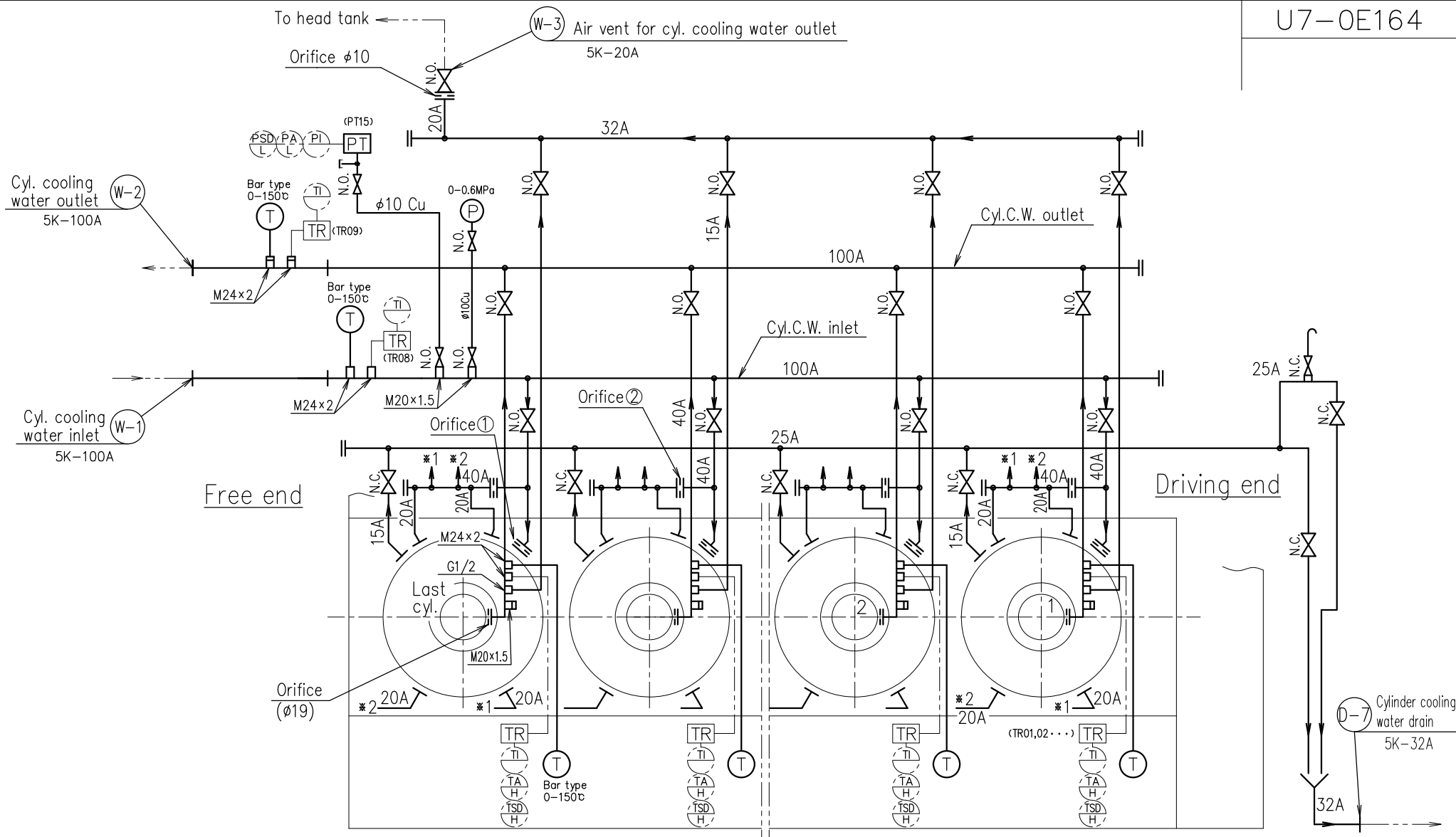
PIPING DIAGRAM OF
CYLINDER LUBRICATING OIL FOR
A-ECL SYSTEM
シリンダ注油管線図 (A-ECLシステム)



Turbocharger type	Pipe sizes		
	D1	D2	D5
MET42MB/-EGB×1	25A	50A	50A
MET37MB/-EGB×1	25A	50A	50A
MET33MB/-EGB×1	20A	40A	40A

6UEC35LSJ/-SCR

PIPING DIAGRAM OF
TURBO CHARGER LUB. OIL
過給機潤滑油管線図

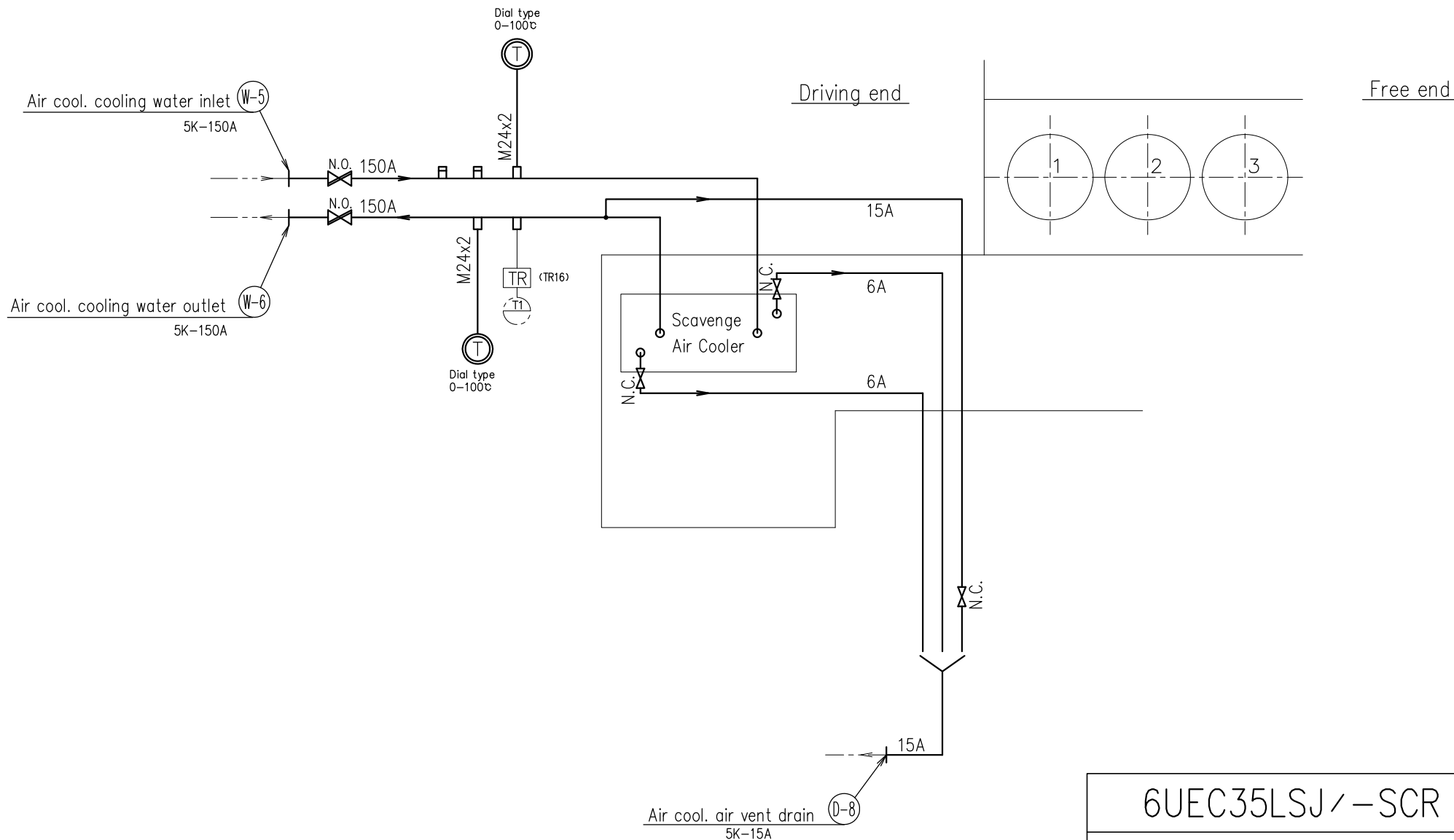


Orifice	φ (mm)
①	
②	

6UEC35LSJ/SCR

PIPING DIAGRAM OF CYLINDER
COOLING WATER
(With Bypass pipe ver.)
シリンダ冷却水管線図 (バイパス管仕様)

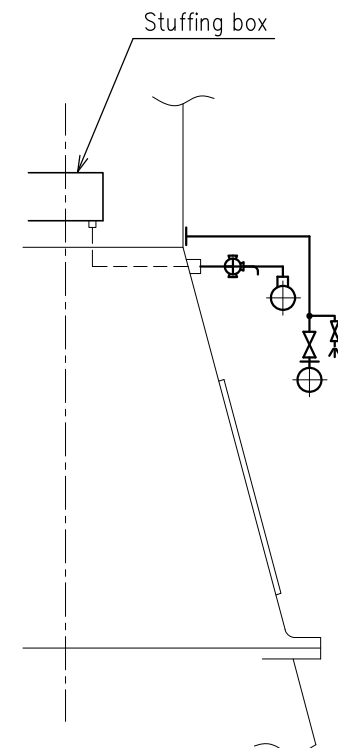
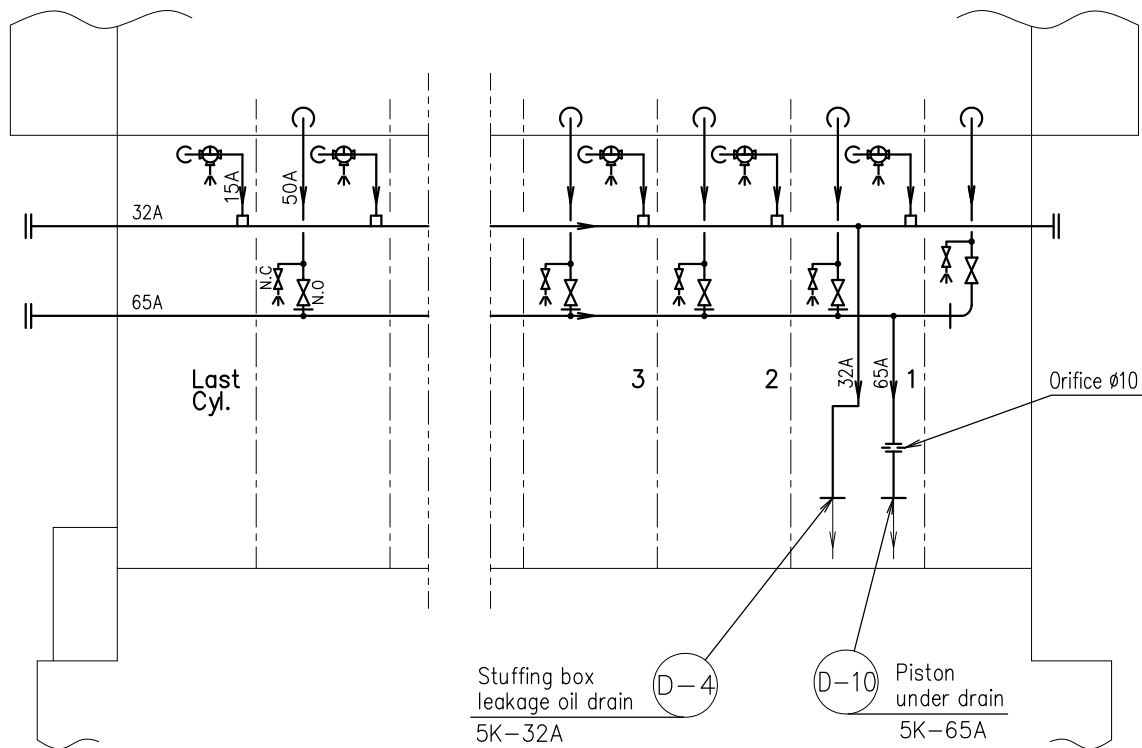
9
15



6UEC35LSJ/SCR
 PIPING DIAGRAM OF AIR COOLER
 COOLING WATER
 空気冷却器冷却水管線図

Free end

Driving end

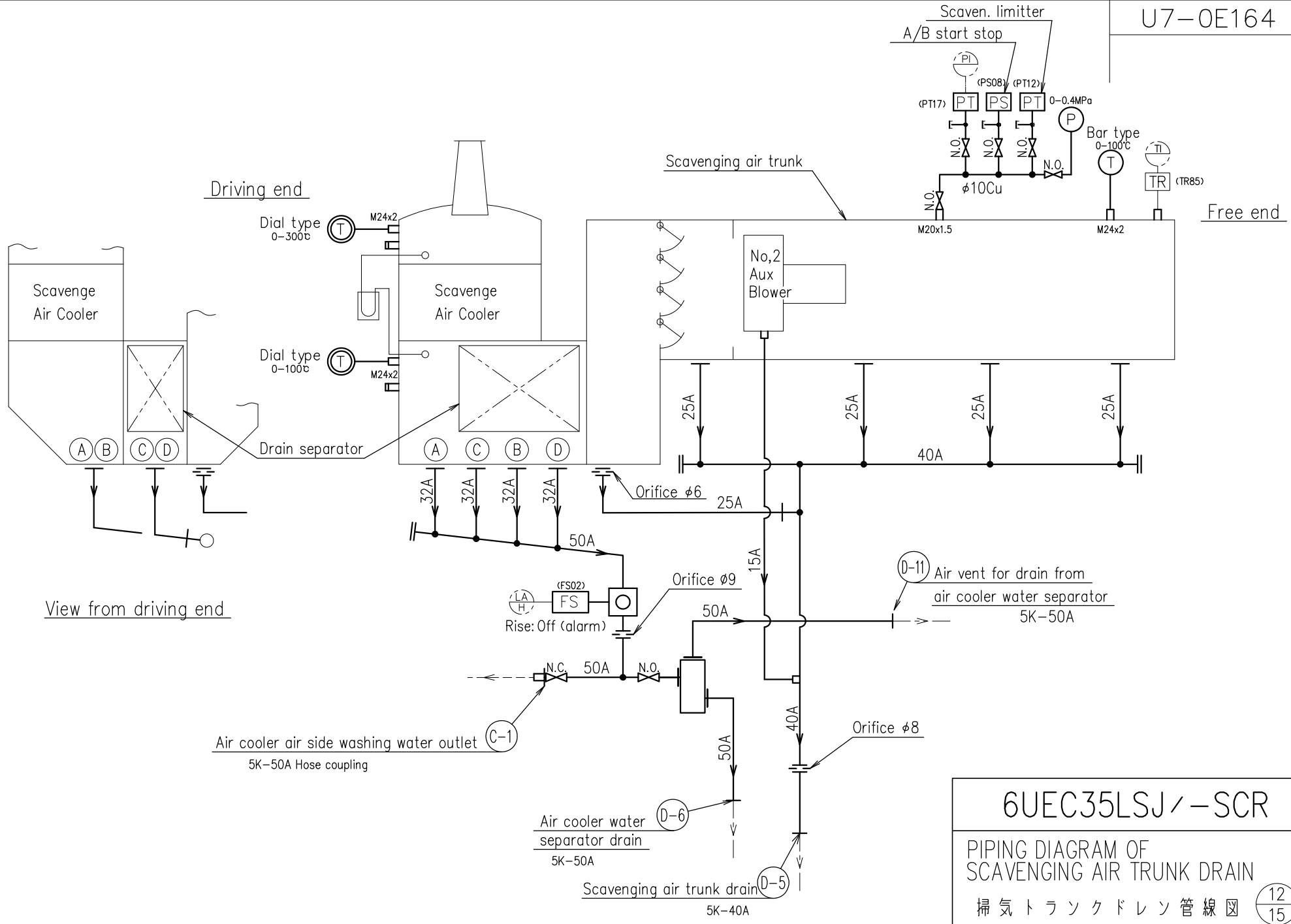


View from
free end

6UEC35LSJ / -SCR

PIPING DIAGRAM OF STUFFING BOX
LEAKAGE DRAIN AND PISTON UNDER DRAIN

ピストン棒パッキン箱ドレン管
及びピストン下部ドレン管線図

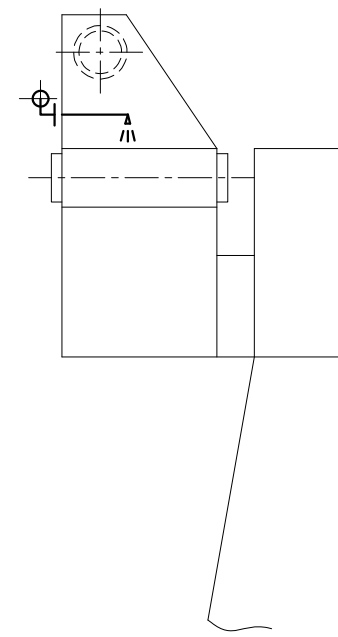
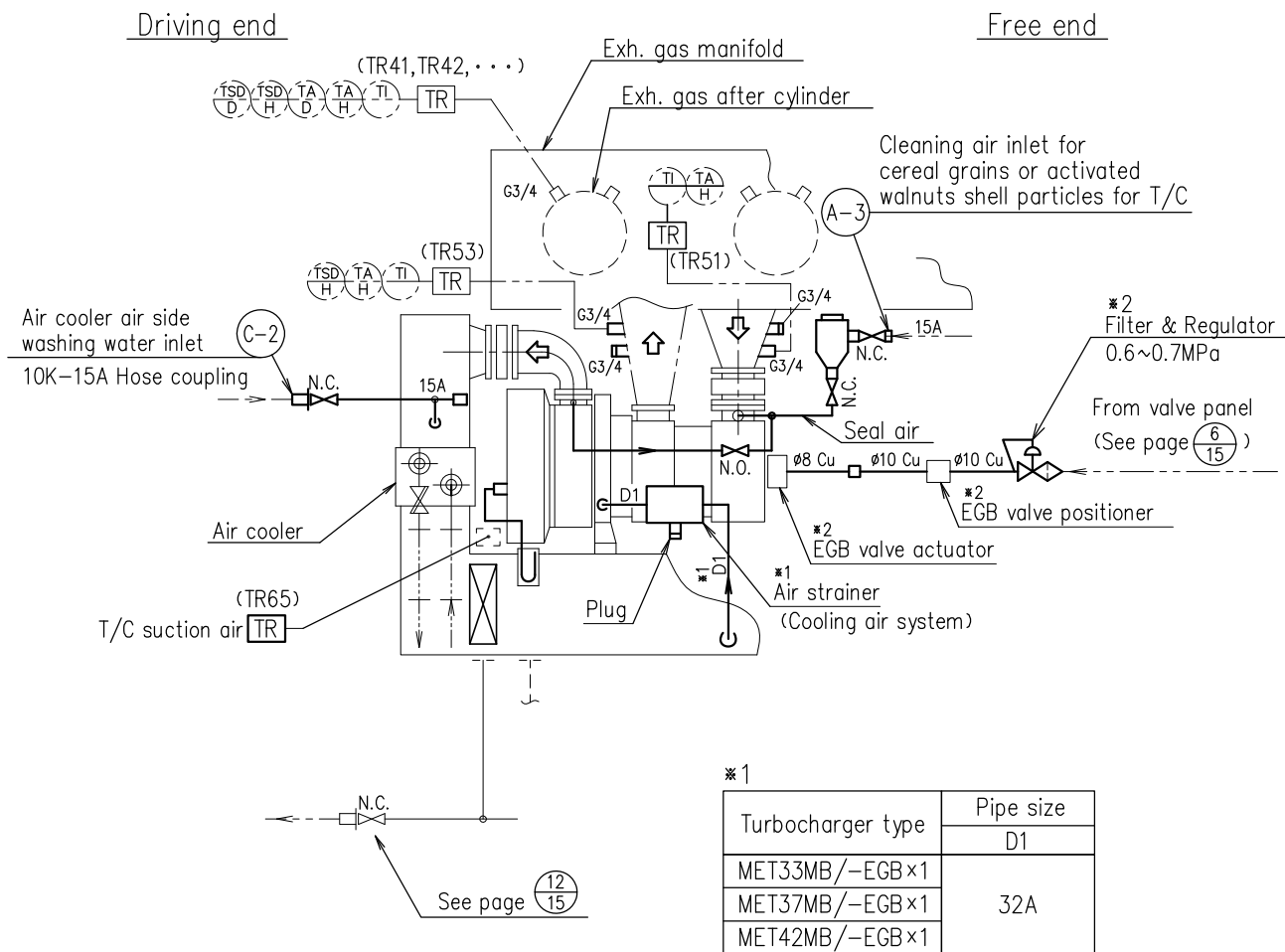


6UEC35LSJ / -SCR

PIPING DIAGRAM OF
SCAVENGING AIR TRUNK DRAIN

掃気トランクドレン管線図

12
15



※1

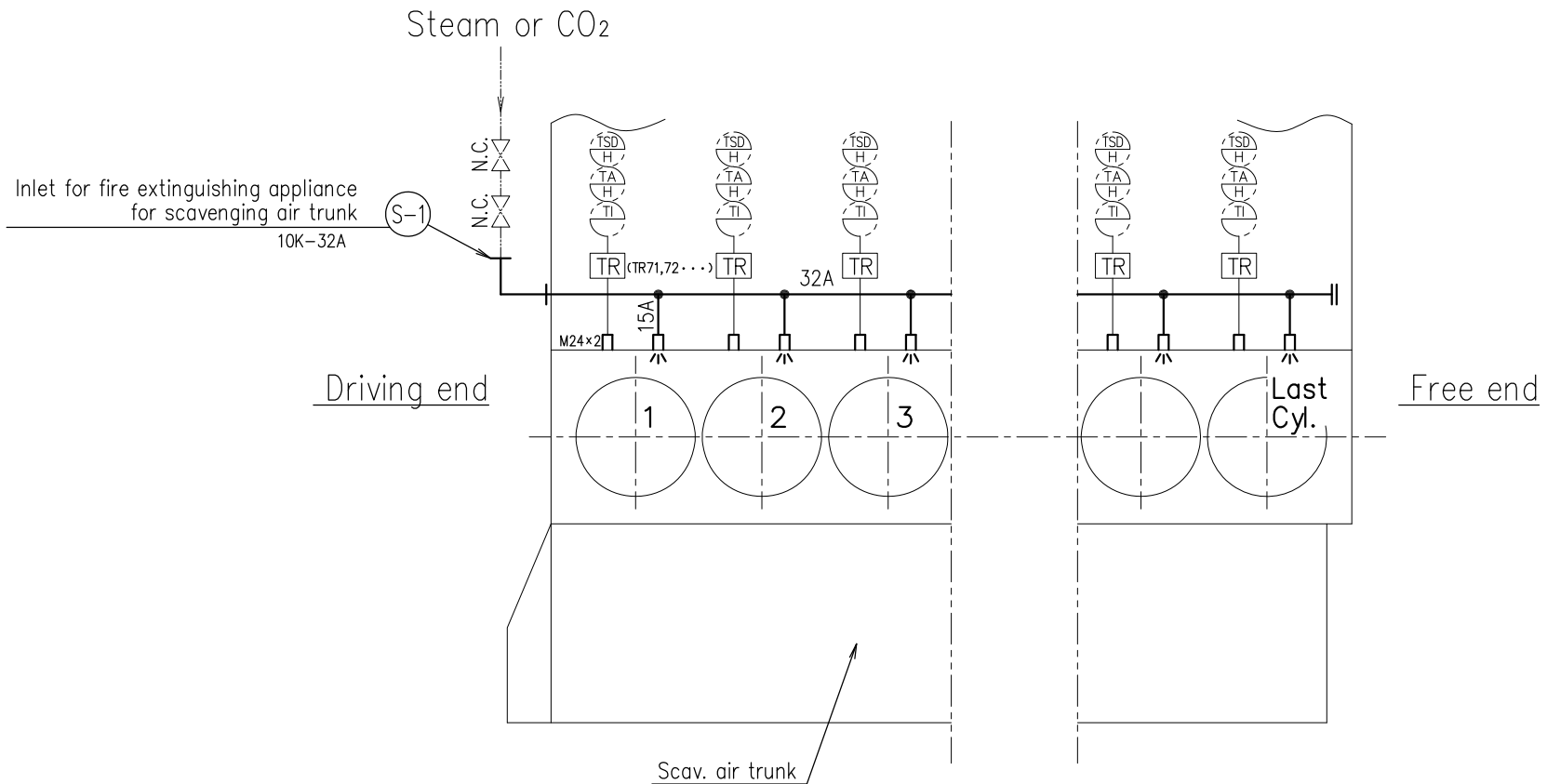
Turbocharger type	Pipe size
MET33MB/-EGB×1	D1
MET37MB/-EGB×1	32A
MET42MB/-EGB×1	

- ※1 クーリングエアシステムは、機関の仕様により必要となる場合があります。お問い合わせください。
Depending on the engine specification, cooling air system may be required.
- ※2 MET-EGB 過給機のみ
Only for MET-EGB type turbocharger.

6UEC35LSJ/-SCR

PIPING DIAGRAM OF TURBO-CHARGER AND AIR COOLER WASHING WATER, AND EXHAUST GAS SYSTEM 13/15

過給機空気冷却器洗浄水管及び排気ガス線図 13/15



Steam or CO2

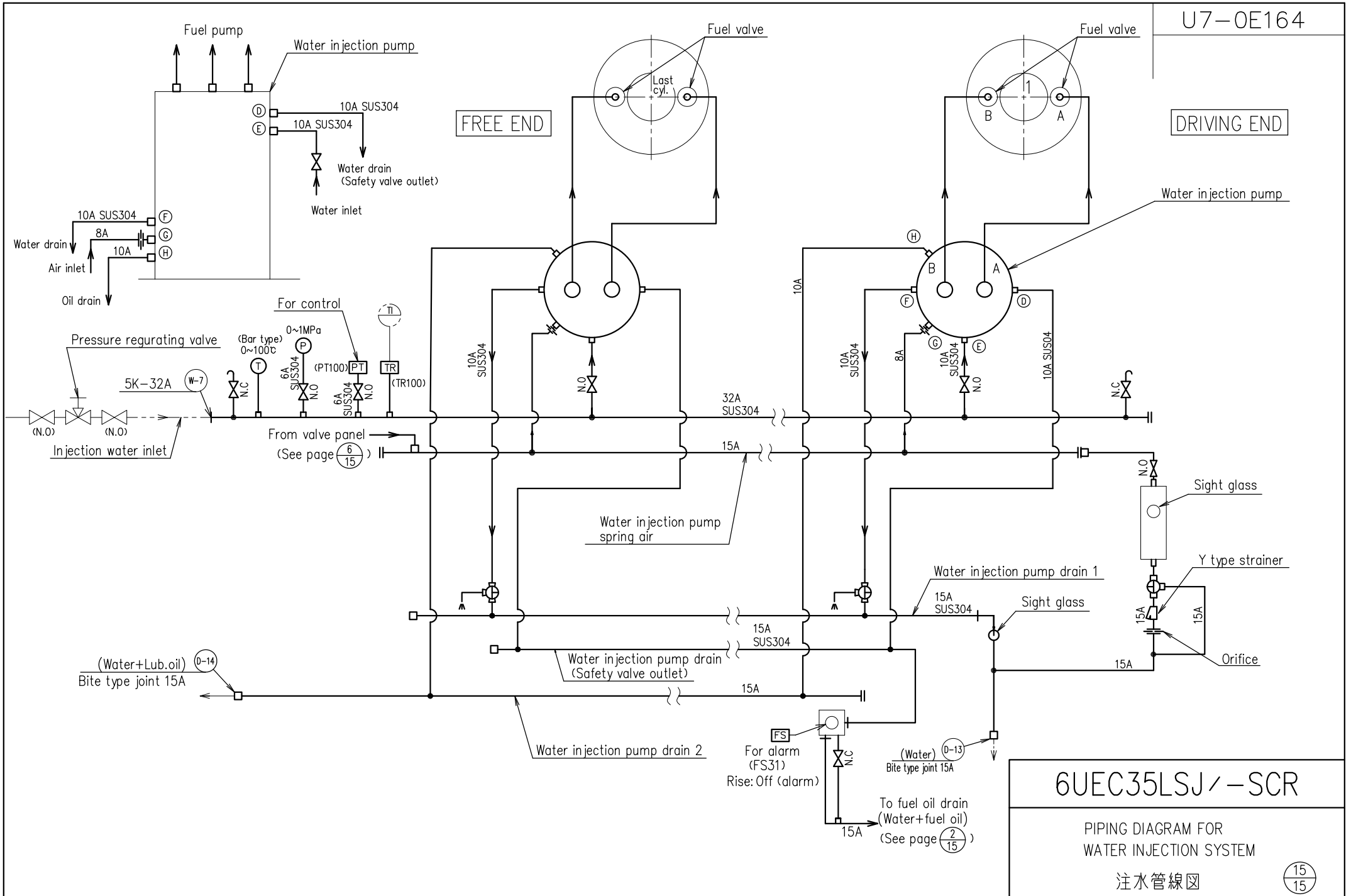
6UEC35LSJ/-SCR

PIPING DIAGRAM OF
FIRE EXTINGUISHING

掃気室火災消火装置管線図

DRIVING END

FREE END



6UEC35LSJ / - SCR

PIPING DIAGRAM FOR WATER INJECTION SYSTEM

注水管線図

