			Н6	Н7	Н8	Н9	Applicable part	Functional	classification	Application example		
orner		Loose fit				asons requires a large gap positional error. gth	Piston ring and piston ring groove Fitting by means of a loose set pin					
Parts can move relative to each other Clearance fit	_	roll fit			d9	d9	Part which accommodates a wide gap, or which requires a wide gap	Cost needs to be red Manufacturing of Maintenance of	cost	Crank web and pin bearing (side) Exhaust valve box and spring bearing sliding part Piston ring and piston ring groove		
	learance I	Loose		e7	e8	e9	Part which accommodates a fairly wide gap, or a moving part which requires a gap Fairly wide gap and well lubricated bearing Bearing subjected to high temperature, high speed, and high load (high-degree forced lubrication)	Regular rotating or sl (Must be well lub		Fitting of exhaust valve seat Main bearing for crankshaft Regular sliding part stripper bolt MSB (e9)		
		Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides an appropriate clearance and Regular normal-temperature bearing lubrical Fitting which provides are supplied for the Regular normal-temperature bearing lubrical Fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular normal fitting which provides are supplied for the Regular nor		Fitting which provides an appropriate clearance and permits movement (high-quality fitting). Regular normal-temperature bearing lubricated with grease or oil	Regular fitting part (is often disasse	embled)	Partwhere a cooled exhaust valve box is inserted Regular shaft and bushing Link device lever and bushing					
r		Tight roll fit	g5	Gontinuously rotating part of a precision machine under light load Fitting with a narrow gap and which permits movement (spigot, positioning) High-precision sliding part Part requiring precision motion with almost no gap		ion motion with	Link device pin and lever Key and key groove Precision control valve rod Guide lifter pin (g6)					
		Push fit Slidingfit	h5	h6	h7 h8	h9	Fitting which allows movement by hand when a lubricant is used (high-quality positioning) Special high-precision sliding part Unimportant stationary part	d (high-quality positioning)		Fitting of rim and boss Fitting of gears in a precision gear device Dowel pin MSTH (h7)		
ach other. Transition fit	ĬĮ.	Push fit	h5 h6	js6			Installation part which is compatible with a very small tightening interference High-precision positioning which locks both parts in place while unit is in use Fitting which can be assembled/disassembled using a wooden or lead hammer		Fitting force alone is insufficient for	Fitting two coupling flanges Governor path and pin Fitting of gear rim and boss		
	IION	Striking	js5	k6			Fitting which requires an iron hammer or hand press for assembly/disassembly (A key or other device is required in order to prevent inter-part shaft rotation.) Precision positioning	Difficult to disassemble without damaging the part.	transmitting force	Fitting of gear pump shaft and casing Reamer bolt		
IVe to ea		Stri	k5	m6			Assembly/disassembly are the same as the above. Precision positioning which permits no gap at all			Reamer bolt Dowel pin MSTM (m6) Fastening of hydraulic device pistons and sha Fitting of coupling flange and shaft		
cannot move relative to each other.		Lightpressfit	m5 n6 Fitting which requires considerable force for assembly/disassembly Precision stationary fitting (A key or other device is required for high-torque transmission purposes.)						Fitting force along is	Fitting of flexible shaft coupling and gear (passive side Precision fitting Punch SPAS, etc. (m5) Insertion of suction valve and valve guide Die MHD, etc. (m8)		
S calliot i		Press fit	n5 n6	р6			Fitting which requires large force for assembly/disassembly (A key or other device is required for high-torque transmission purposes.) However, only light press-fitting force is required for press-fitting when both parts are non-ferrous parts. Fastened using the standard press-fitting for fastening a ferrous part to a ferrous, bronze, or copper part		sufficient for transmitting small force	Insertion of suction valve and valve guide Straight die MSD, etc. (Fixing a gear and shaft together (small torque) Dowel pin MST (Flexible coupling shaft and gear (drive side)		
Parts (nterrerence rit		p5	r6			Assembly/disassembly are the same as the above. Shrinkage press fitting, cold press fitting or forced press fitting is required for large parts	Difficult to		Coupling and shaft		
rfore	пеге	fit, cold p	r5	s6				without damaging	Fitting force is	Fitting and fixing a bearing bushing		
Inte	Inte	Strong press fit, shrinkage press fit, cold press fit		t6			Permanent assembly in which parts are both tightly fastened together and will not be disassembled, and which requires shrinkage press fitting, cold press fitting, or forced press fitting. For light alloys, only ordinary press	the part.	capable of transmitting considerable force	Insertion of suction valve and valve seat Fixing a coupling flange and shaft together (large torque		
		strong press fit,		u6 x6			fitting is required.		considerable loice	Fixing a drive gear rim and boss together		

Reference hole

200

۱٫۱ Fitting	with regularly used hole adopted as reference

		Shaft tolerance range class																
Reference hole	Clearance fit								sitio	n fit	Close fit							
Н6						g5	h5	js5	k5	m5								
по					f6	g6	h6	js6	k6	m6	n6 *	p6 *						
H7					f6	g6	h6	js6	k6	m6	n6	p6 *	r6*	s6	t6	u6	х6	
П/				e7	f7		h7	js7										
					f7		h7											
H8				е8	f8		h8											
			d9	е9														
Н9			d8	e8			h8				n6 * p6 *							
пэ		с9	d9	е9			h9											
H10	b9	с9	d9															

 $\underline{\text{VY Correlation of tolerance ranges in fitting with the regularly used hole adopted as reference}}$

H7

Н8

Note: * Exceptions for these fittings may arise depending on the dimensional sectioning scheme

Y.1 Fitting with regularly used shaft adopted as reference

D-4		Hole tolerance range class																
Reference shaft	Clearance fit								sitio	n fit	Close fit							
h5							H6	JS6	K6	M6	N6 *	P6						
h6					F6	G6	H6	JS6	K6	M6	N6	P6 *						
110					F7	G7	H7	JS7	K7	M7	N7	P7 *	R7	S7	T7	U7	Х7	
1.7				E7	F7		H7											
h7					F8		Н8											
h8			D8	E8	F8		Н8											
110			D9	E9			H9											
			D8	E8			H8											
h9		C9	D9	E9			H9											
	B10	C10	D10															





