

Pneumatic Clutch System

for Medium- and Large-Sized Commercial MT/AMT Vehicles

EXEDY

Under Development

Concept

Pneumatic release cylinder (CPCA) system for MT/AMT with push-type clutch cover assembly

CPCA Concentric Pneumatic Clutch Actuator

Actuator controls the clutch cover assembly coaxially by pneumatic pressure.

Features

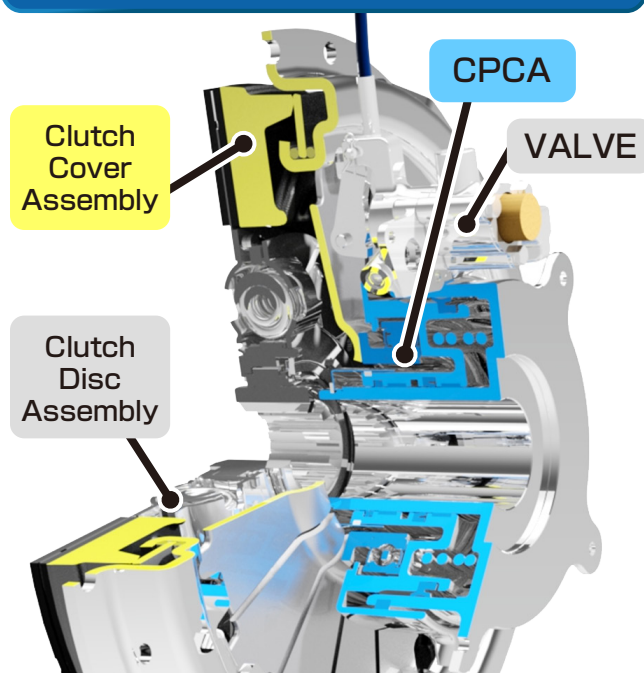
● Clutch Cover Assembly

Set clutch release characteristics to match CPCA

● CPCA

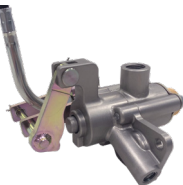



Choosing a MT valve and AMT stroke sensor, and sharing of parts allows this system to be used on both MT and AMT transmission types.

Structure/Appearance



Main Specifications

Main Specifications

	MT			AMT
	VALVE	CLUTCH	CPCA	SENSOR
Medium Duty <small>Applicable engine torque ~1,000Nm</small>		 Φ350PUSH Φ380PUSH	M-CPCA <small>Generated load 7.2kN / 0.5MPa Total stroke 36.5mm</small> 	Non-contact Stroke sensor type PWM or analog
Heavy Duty <small>Applicable engine torque ~2,300Nm</small>	Position control valve 3 ports	 Φ430PUSH	H-CPCA <small>Generated load 12kN / 0.5MPa Total stroke 38.8mm</small> 