Species	# of orbitals needed and hybridization	Molecular shape and bond angle (s) Bond type and molecule type	- molecular model picture

CF_4	4 sigma
	0 unbonded
	  electron
	  pairs
	
	4 / sp³
		tetrahedron
		109.5°
		polar bond
		nonpolar molecule	

PCl_5			
SF_2			
SO_3			

Species	# of orbitals needed and hybridization	Molecular shape and bond angle (s)	- molecular model picture
NO_2^{-1}			
ArF_4			
NH_3			
BrI_5			