

	retraction
6)	FexT = P AexT
	FexT = P T (Dasion)
	4 (History) EXTENTION
	Frei = P Aret Apision - Apod
	Frei - $P \times \frac{11}{4} \left(\begin{array}{c} D^2 & d^2 \\ Priston & rod \end{array} \right) \rightarrow \boxed{2}$
1 Ri	Then Fext > Fret
	Ve locity A ext The (Destion)2
	$V_{reT} = \frac{Q}{A_{reT}} = \frac{Q}{\prod_{i=1}^{N} (D_{i}^{2} - d_{i}^{2})} > \boxed{2}^{N}.$
Then	Ode Vret 7 VexT
C)	d= 15 cm, P= 124 bar, T= 10 sec, store= 254 cm Power= 17
Sol	- Power mechania = Force * STroke
	Time
	Force = Pressure · Area = (124 × 10 ⁵) × TT (15 × 10 ²) ² = 219126.0876 N
	: Power = 219126.0876 x (254 x 10-2) = 55658.026
	10

عر كمان مينيره
(varriable displacement Pump) -> cycle
To increase The Pump flow rate in Swash Plate Poton P
-> increase swash Plate angle (0 = max) -> Vo
STORE
(Fixed dis Placement Pump) > quilinilies of
Cycle JS/Glan
rate
POSITIVE PUMP Non Positive Pump
ages 1 high Pressure - cumos de o Lealisons si e
2) high Volumetric efficiency 1) Low Pressure
31 Small size 21 Transmission Flow From one
41 small Change in efficiency loctation to another
5) Great flexability of Performance while fluid Il endat or Joen
internal loss Pressure
in flow
max Pressure
(SuTOFF Head Purp)
flow TheroTical (Missourin) acTuel Curve
Curve Pressure
(قَعَقُوفَ)

d)	Pressure = 70 bar * 10 Pa	
801	Qact - Qact Pump motor	d
	QTh = VDIPump 1 60 = (82 × 106) 1 60	-6.83×10
	Qacī O.82 hvot pump Qīn	
	: Qaci) Rump = 5.6006 x 10 m3/sec - Qac	major)
	Myor Quet	
		2 × 10-4
	Motor Von-N/60 (400/60)	m³/sec
		4)
	TTh = Pressure * QTh = 70 × 10° × (5.152 × 10 motor W 2TT 400/60	1
	= 86.096 N.M	
	Am motor Pressure & QTh	
) G.9	
	; Tacī = 77.48 N.M	

Q3) Pressure compensated PIJOT CHECK VOIVE DCV

(b)	Vo = 164 × 10 m3, P= 70 × 10 Pa
	N= 2000 rpm , Qact = 0.006 m3/sec
	Tacī = 170 N.m
find-	My My Pact ??
	-6 2 -3
	$\frac{1}{10000000000000000000000000000000000$
	M = QTh = 5.467 × 10 ³ = 0.911 × 100 = 91.11 %
	- M - Taci Limech Tin
	" Th = 70 × 10 × (5.467 × 103) - 182. 72 N.M.
	60
	: Mech = 170 182.72 0.93 × 100 = 93.03 %
7	overall - Lmech 2 /voi = 0.847 ×100 = 84.72 ./o
	Power = TacT * W = 170 * 211-2000 - 60
	= 35604.716 WaTT

		1
O_{i}		
01	3	
4	0	
	Relief valve	-
	ال ال الما على عن	
- system	المان المناه	
Helief value.	10 1 by ieo 11 big 11 isc	
	reducing valve	
2,000		
	Species Species Species	
9 0/0	125 endiallem 5000 60 brother principle	-
Tank	di thing II occistori ur rond strew mad mo	
	PILOSIBER U MOTEPE	
		-



