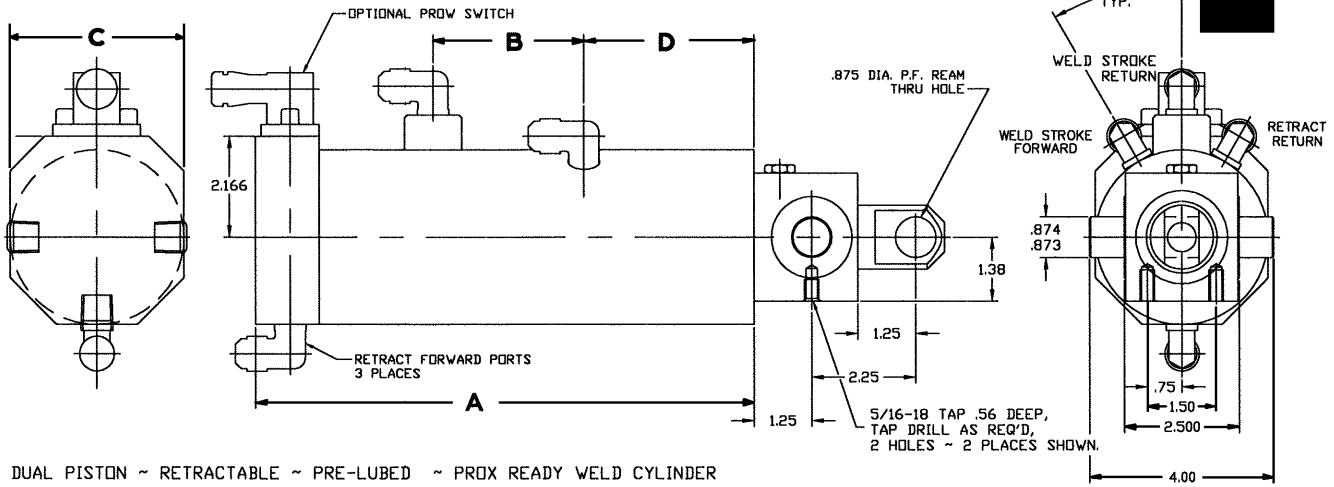
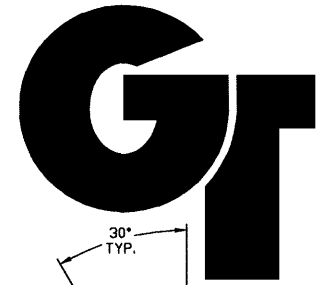


Grossel Tool Company

Cylinder Catalogue

Section F

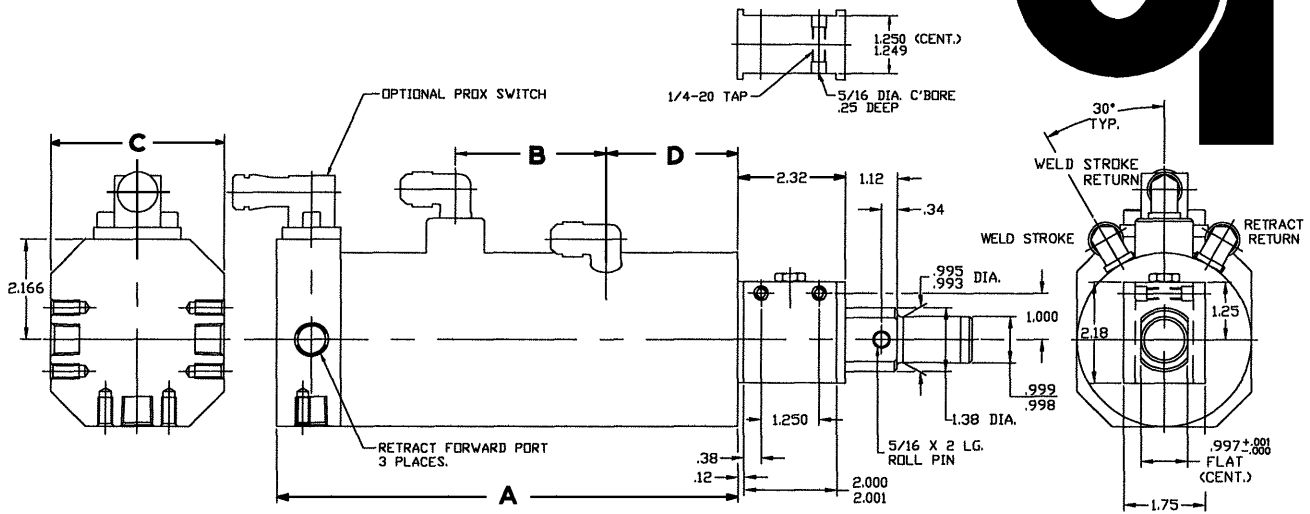
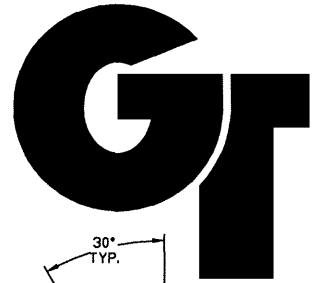
Dual Piston
Retractable
Pre-Lubed Cylinders



DUAL PISTON ~ RETRACTABLE ~ PRE-LUBED ~ PROX READY WELD CYLINDER

FOR EACH ADDITIONAL 1/2" OF STROKE LONGER THAN SHOWN ADD 1.50" TO DIMENSION "A" AND 1/2" INCH TO DIMENSION "B" & "D"

BORE	MODEL NO.	STROKE	TABULATED DIMENSIONS				PISTON AREA		FORCE AT LINE PRESSURE P.S.I.			
			A	B	C	D	FORWARD	RETURN	50	60	70	80
8.00 SQ. IN. AREA	20G-GTPR-2.0-S-8.00-1.0-19F	1.00	15.00	3.25	3.00	5.31	8.00 SQ. IN.	3.00 SQ. IN.	400 LBS.	480 LBS.	560 LBS.	640 LBS.
	20G-GTPR-2.0-S-8.00-1.5-19F	1.50	16.00	3.75		5.81						
	20G-GTPR-2.0-S-8.00-2.0-19F	2.00	17.00	4.25		6.31						
	20G-GTPR-2.0-S-8.00-2.5-19F	2.50	18.00	4.75		6.81						
	20G-GTPR-2.0-S-8.00-3.0-19F	3.00	19.00	5.25		7.31						
	20G-GTPR-2.0-S-8.00-3.5-19F	3.50	20.50	5.75		7.81						
10.00 SQ. IN. AREA	20G-GTPR-2.0-S-8.00-4.0-19F	4.00	22.00	6.25	8.31	3.25	10.00 SQ. IN.	4.00 SQ. IN.	500 LBS.	600 LBS.	700 LBS.	800 LBS.
	20G-GTPR-2.0-S-10.00-1.0-19F	1.00	15.00	3.25	5.31							
	20G-GTPR-2.0-S-10.00-1.5-19F	1.50	16.00	3.75	5.81							
	20G-GTPR-2.0-S-10.00-2.0-19F	2.00	17.00	4.25	6.31							
	20G-GTPR-2.0-S-10.00-2.5-19F	2.50	18.00	4.75	6.81							
	20G-GTPR-2.0-S-10.00-3.0-19F	3.00	19.00	5.25	7.31							
13.00 SQ. IN. AREA	20G-GTPR-2.0-S-10.00-3.5-19F	3.50	20.50	5.75	7.81	3.50	13.00 SQ. IN.	5.00 SQ. IN.	650 LBS.	780 LBS.	910 LBS.	1040 LBS.
	20G-GTPR-2.0-S-10.00-4.0-19F	4.00	22.00	6.25	8.31							
	20G-GTPR-2.0-S-13.00-1.0-19F	1.00	15.00	3.25	5.31							
	20G-GTPR-2.0-S-13.00-1.5-19F	1.50	16.00	3.75	5.81							
	20G-GTPR-2.0-S-13.00-2.0-19F	2.00	17.00	4.25	6.31							
	20G-GTPR-2.0-S-13.00-2.5-19F	2.50	18.00	4.75	6.81							
15.00 SQ. IN. AREA	20G-GTPR-2.0-S-13.00-3.0-19F	3.00	19.00	5.25	7.31	3.75	15.00 SQ. IN.	6.00 SQ. IN.	750 LBS.	900 LBS.	1050 LBS.	1200 LBS.
	20G-GTPR-2.0-S-13.00-3.5-19F	3.50	20.50	5.75	7.81							
	20G-GTPR-2.0-S-13.00-4.0-19F	4.00	22.00	6.25	8.31							
	20G-GTPR-2.0-S-15.00-1.0-19F	1.00	15.00	3.25	5.31							
	20G-GTPR-2.0-S-15.00-1.5-19F	1.50	16.00	3.75	5.81							
	20G-GTPR-2.0-S-15.00-2.0-19F	2.00	17.00	4.25	6.31							
18.00 SQ. IN. AREA	20G-GTPR-2.0-S-15.00-2.5-19F	2.50	18.00	4.75	6.81	4.00	18.00 SQ. IN.	7.00 SQ. IN.	900 LBS.	1080 LBS.	1260 LBS.	1440 LBS.
	20G-GTPR-2.0-S-15.00-3.0-19F	3.00	19.00	5.25	7.31							
	20G-GTPR-2.0-S-15.00-3.5-19F	3.50	20.50	5.75	7.81							
	20G-GTPR-2.0-S-15.00-4.0-19F	4.00	22.00	6.25	8.31							
	20G-GTPR-2.0-S-18.00-1.0-19F	1.00	15.00	3.25	5.31							
	20G-GTPR-2.0-S-18.00-1.5-19F	1.50	16.00	3.75	5.81							
21.00 SQ. IN. AREA	20G-GTPR-2.0-S-18.00-2.0-19F	2.00	17.00	4.25	6.31	4.25	21.00 SQ. IN.	8.00 SQ. IN.	1050 LBS.	1260 LBS.	1470 LBS.	1680 LBS.
	20G-GTPR-2.0-S-18.00-2.5-19F	2.50	18.00	4.75	6.81							
	20G-GTPR-2.0-S-18.00-3.0-19F	3.00	19.00	5.25	7.31							
	20G-GTPR-2.0-S-18.00-3.5-19F	3.50	20.50	5.75	7.81							
	20G-GTPR-2.0-S-18.00-4.0-19F	4.00	22.00	6.25	8.31							
	20G-GTPR-2.0-S-21.00-1.0-19F	1.00	15.00	3.25	5.31							
20G-GTPR-2.0-S-21.00-1.5-19F	1.50	16.00	3.75	5.81								
21.00 SQ. IN. AREA	20G-GTPR-2.0-S-21.00-2.0-19F	2.00	17.00	4.25	6.31	4.25	21.00 SQ. IN.	8.00 SQ. IN.	1050 LBS.	1260 LBS.	1470 LBS.	1680 LBS.
	20G-GTPR-2.0-S-21.00-2.5-19F	2.50	18.00	4.75	6.81							
	20G-GTPR-2.0-S-21.00-3.0-19F	3.00	19.00	5.25	7.31							
	20G-GTPR-2.0-S-21.00-3.5-19F	3.50	20.50	5.75	7.81							
	20G-GTPR-2.0-S-21.00-4.0-19F	4.00	22.00	6.25	8.31							
	20G-GTPR-2.0-S-21.00-4.0-19F	4.00	22.00	6.25	8.31							



DUAL PISTON ~ RETRACTABLE ~ PRE-LUBED ~ PROX READY WELD CYLINDER

FOR EACH ADDITIONAL 1/2" OF STROKE LONGER THAN SHOWN ADD 1.50" TO DIMENSION 'A' AND 1/2" INCH TO DIMENSION 'B' & 'D'

BORE	MODEL NO.	STROKE	TABULATED DIMENSIONS				PISTON AREA		FORCE AT LINE PRESSURE P.S.I.			
			A	B	C	D	FORWARD	RETURN	50	60	70	80
8.00 SQ. IN. AREA	M171-GTPR-2.0-S-8.00-1.0-14FP	1.00	15.00	3.25	3.00	5.31	8.00 SQ. IN.	3.00 SQ. IN.	400 LBS.	480 LBS.	560 LBS.	640 LBS.
	M171-GTPR-2.0-S-8.00-1.5-14FP	1.50	16.00	5.81								
	M171-GTPR-2.0-S-8.00-2.0-14FP	2.00	17.00	6.31								
	M171-GTPR-2.0-S-8.00-2.5-14FP	2.50	18.00	6.81								
	M171-GTPR-2.0-S-8.00-3.0-14FP	3.00	19.00	7.31								
	M171-GTPR-2.0-S-8.00-3.5-14FP	3.50	20.50	7.81								
10.00 SQ. IN. AREA	M171-GTPR-2.0-S-8.00-4.0-14FP	4.00	22.00	6.25	3.25	8.31	10.00 SQ. IN.	4.00 SQ. IN.	500 LBS.	600 LBS.	700 LBS.	800 LBS.
	M171-GTPR-2.0-S-10.00-1.0-14FP	1.00	15.00	5.31								
	M171-GTPR-2.0-S-10.00-1.5-14FP	1.50	16.00	5.81								
	M171-GTPR-2.0-S-10.00-2.0-14FP	2.00	17.00	6.31								
	M171-GTPR-2.0-S-10.00-2.5-14FP	2.50	18.00	6.81								
	M171-GTPR-2.0-S-10.00-3.0-14FP	3.00	19.00	7.31								
13.00 SQ. IN. AREA	M171-GTPR-2.0-S-10.00-3.5-14FP	3.50	20.50	7.75	3.50	7.81	13.00 SQ. IN.	5.00 SQ. IN.	650 LBS.	780 LBS.	910 LBS.	1040 LBS.
	M171-GTPR-2.0-S-10.00-4.0-14FP	4.00	22.00	8.31								
	M171-GTPR-2.0-S-13.00-1.0-14FP	1.00	15.00	5.31								
	M171-GTPR-2.0-S-13.00-1.5-14FP	1.50	16.00	5.81								
	M171-GTPR-2.0-S-13.00-2.0-14FP	2.00	17.00	6.31								
	M171-GTPR-2.0-S-13.00-2.5-14FP	2.50	18.00	6.81								
15.00 SQ. IN. AREA	M171-GTPR-2.0-S-13.00-3.0-14FP	3.00	19.00	7.31	3.75	7.31	15.00 SQ. IN.	6.00 SQ. IN.	750 LBS.	900 LBS.	1050 LBS.	1200 LBS.
	M171-GTPR-2.0-S-13.00-3.5-14FP	3.50	20.50	7.81								
	M171-GTPR-2.0-S-13.00-4.0-14FP	4.00	22.00	8.31								
	M171-GTPR-2.0-S-15.00-1.0-14FP	1.00	15.00	5.31								
	M171-GTPR-2.0-S-15.00-1.5-14FP	1.50	16.00	5.81								
	M171-GTPR-2.0-S-15.00-2.0-14FP	2.00	17.00	6.31								
18.00 SQ. IN. AREA	M171-GTPR-2.0-S-15.00-2.5-14FP	2.50	18.00	6.81	4.00	6.81	18.00 SQ. IN.	7.00 SQ. IN.	900 LBS.	1080 LBS.	1260 LBS.	1440 LBS.
	M171-GTPR-2.0-S-15.00-3.0-14FP	3.00	19.00	7.31								
	M171-GTPR-2.0-S-15.00-3.5-14FP	3.50	20.50	7.81								
	M171-GTPR-2.0-S-15.00-4.0-14FP	4.00	22.00	8.31								
	M171-GTPR-2.0-S-18.00-1.0-14FP	1.00	15.00	5.31								
	M171-GTPR-2.0-S-18.00-1.5-14FP	1.50	16.00	5.81								
21.00 SQ. IN. AREA	M171-GTPR-2.0-S-18.00-2.0-14FP	2.00	17.00	6.31	4.25	6.31	21.00 SQ. IN.	8.00 SQ. IN.	1050 LBS.	1260 LBS.	1470 LBS.	1680 LBS.
	M171-GTPR-2.0-S-18.00-2.5-14FP	2.50	18.00	6.81								
	M171-GTPR-2.0-S-18.00-3.0-14FP	3.00	19.00	7.31								
	M171-GTPR-2.0-S-18.00-3.5-14FP	3.50	20.50	7.81								
	M171-GTPR-2.0-S-18.00-4.0-14FP	4.00	22.00	8.31								
	M171-GTPR-2.0-S-21.00-1.0-14FP	1.00	15.00	5.31								
M171-GTPR-2.0-S-21.00-1.5-14FP	1.50	16.00	5.81									
M171-GTPR-2.0-S-21.00-2.0-14FP	2.00	17.00	6.31									
M171-GTPR-2.0-S-21.00-2.5-14FP	2.50	18.00	6.81									
M171-GTPR-2.0-S-21.00-3.0-14FP	3.00	19.00	7.31									
M171-GTPR-2.0-S-21.00-3.5-14FP	3.50	20.50	7.81									
M171-GTPR-2.0-S-21.00-4.0-14FP	4.00	22.00	8.31									