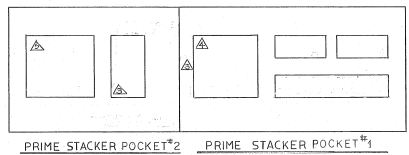


SEQUENCE OF OPERATION
 CONTROLLED BY 2 POSITION, 4WAY, SINGLE SOLENOID OPERATED SPRING RETURN VALVE. SOLENOID IS ENERGIZED TO OPEN THE FRONT & REAR GUIDES.

NOTE
 USE "PARKER-HANNIFIN" COMPRESS-ALIGN FITTINGS. ALL TUBING TO BE AS NOTED.
 .25" - .375" TUBING - .038" WALL.
 .5" TUBING - .045" WALL.
 .25" PLASTIC TUBING - .040" WALL.
 IMPERIAL EASTMAN POLY-FLO #46-P (NATURAL COLOR)



| SYM | VIEW | dwg. |
|-----|------|----------|
| △ | F | D-151576 |
| △ | D | |
| △ | E | |

| | | | | | |
|--|-----------|-----------------------|------|------------|------|
| SINGLE SOLENOID OPERATED SPRING RETURN VALVE | | 1.5" BORE 9.0" STROKE | | DIMENSIONS | |
| SIZE | 1.5" | BORE | 9.0" | STROKE | 9.0" |
| DIMENSIONS | TOLERANCE | FRACTIONAL DECIMAL | | | |
| 1/2" | ±.005" | 1/16" ±.001" | | | |
| 3/4" | ±.005" | 1/8" ±.001" | | | |
| 1" | ±.005" | 1/4" ±.001" | | | |
| 1 1/2" | ±.005" | 3/8" ±.001" | | | |
| 2" | ±.005" | 1/2" ±.001" | | | |
| 2 1/2" | ±.005" | 3/4" ±.001" | | | |
| 3" | ±.005" | 1" ±.001" | | | |
| 3 1/2" | ±.005" | 1 1/4" ±.001" | | | |
| 4" | ±.005" | 1 1/2" ±.001" | | | |
| 4 1/2" | ±.005" | 1 3/4" ±.001" | | | |
| 5" | ±.005" | 2" ±.001" | | | |
| 5 1/2" | ±.005" | 2 1/4" ±.001" | | | |
| 6" | ±.005" | 2 1/2" ±.001" | | | |
| 6 1/2" | ±.005" | 2 3/4" ±.001" | | | |
| 7" | ±.005" | 3" ±.001" | | | |
| 7 1/2" | ±.005" | 3 1/4" ±.001" | | | |
| 8" | ±.005" | 3 1/2" ±.001" | | | |
| 8 1/2" | ±.005" | 3 3/4" ±.001" | | | |
| 9" | ±.005" | 4" ±.001" | | | |
| 9 1/2" | ±.005" | 4 1/4" ±.001" | | | |
| 10" | ±.005" | 4 1/2" ±.001" | | | |
| 10 1/2" | ±.005" | 4 3/4" ±.001" | | | |
| 11" | ±.005" | 5" ±.001" | | | |
| 11 1/2" | ±.005" | 5 1/4" ±.001" | | | |
| 12" | ±.005" | 5 1/2" ±.001" | | | |
| 12 1/2" | ±.005" | 5 3/4" ±.001" | | | |
| 13" | ±.005" | 6" ±.001" | | | |
| 13 1/2" | ±.005" | 6 1/4" ±.001" | | | |
| 14" | ±.005" | 6 1/2" ±.001" | | | |
| 14 1/2" | ±.005" | 6 3/4" ±.001" | | | |
| 15" | ±.005" | 7" ±.001" | | | |
| 15 1/2" | ±.005" | 7 1/4" ±.001" | | | |
| 16" | ±.005" | 7 1/2" ±.001" | | | |
| 16 1/2" | ±.005" | 7 3/4" ±.001" | | | |
| 17" | ±.005" | 8" ±.001" | | | |
| 17 1/2" | ±.005" | 8 1/4" ±.001" | | | |
| 18" | ±.005" | 8 1/2" ±.001" | | | |
| 18 1/2" | ±.005" | 8 3/4" ±.001" | | | |
| 19" | ±.005" | 9" ±.001" | | | |
| 19 1/2" | ±.005" | 9 1/4" ±.001" | | | |
| 20" | ±.005" | 9 1/2" ±.001" | | | |
| 20 1/2" | ±.005" | 9 3/4" ±.001" | | | |
| 21" | ±.005" | 10" ±.001" | | | |
| 21 1/2" | ±.005" | 10 1/4" ±.001" | | | |
| 22" | ±.005" | 10 1/2" ±.001" | | | |
| 22 1/2" | ±.005" | 10 3/4" ±.001" | | | |
| 23" | ±.005" | 11" ±.001" | | | |
| 23 1/2" | ±.005" | 11 1/4" ±.001" | | | |
| 24" | ±.005" | 11 1/2" ±.001" | | | |
| 24 1/2" | ±.005" | 11 3/4" ±.001" | | | |
| 25" | ±.005" | 12" ±.001" | | | |
| 25 1/2" | ±.005" | 12 1/4" ±.001" | | | |
| 26" | ±.005" | 12 1/2" ±.001" | | | |
| 26 1/2" | ±.005" | 12 3/4" ±.001" | | | |
| 27" | ±.005" | 13" ±.001" | | | |
| 27 1/2" | ±.005" | 13 1/4" ±.001" | | | |
| 28" | ±.005" | 13 1/2" ±.001" | | | |
| 28 1/2" | ±.005" | 13 3/4" ±.001" | | | |
| 29" | ±.005" | 14" ±.001" | | | |
| 29 1/2" | ±.005" | 14 1/4" ±.001" | | | |
| 30" | ±.005" | 14 1/2" ±.001" | | | |
| 30 1/2" | ±.005" | 14 3/4" ±.001" | | | |
| 31" | ±.005" | 15" ±.001" | | | |
| 31 1/2" | ±.005" | 15 1/4" ±.001" | | | |
| 32" | ±.005" | 15 1/2" ±.001" | | | |
| 32 1/2" | ±.005" | 15 3/4" ±.001" | | | |
| 33" | ±.005" | 16" ±.001" | | | |
| 33 1/2" | ±.005" | 16 1/4" ±.001" | | | |
| 34" | ±.005" | 16 1/2" ±.001" | | | |
| 34 1/2" | ±.005" | 16 3/4" ±.001" | | | |
| 35" | ±.005" | 17" ±.001" | | | |
| 35 1/2" | ±.005" | 17 1/4" ±.001" | | | |
| 36" | ±.005" | 17 1/2" ±.001" | | | |
| 36 1/2" | ±.005" | 17 3/4" ±.001" | | | |
| 37" | ±.005" | 18" ±.001" | | | |
| 37 1/2" | ±.005" | 18 1/4" ±.001" | | | |
| 38" | ±.005" | 18 1/2" ±.001" | | | |
| 38 1/2" | ±.005" | 18 3/4" ±.001" | | | |
| 39" | ±.005" | 19" ±.001" | | | |
| 39 1/2" | ±.005" | 19 1/4" ±.001" | | | |
| 40" | ±.005" | 19 1/2" ±.001" | | | |
| 40 1/2" | ±.005" | 19 3/4" ±.001" | | | |
| 41" | ±.005" | 20" ±.001" | | | |
| 41 1/2" | ±.005" | 20 1/4" ±.001" | | | |
| 42" | ±.005" | 20 1/2" ±.001" | | | |
| 42 1/2" | ±.005" | 20 3/4" ±.001" | | | |
| 43" | ±.005" | 21" ±.001" | | | |
| 43 1/2" | ±.005" | 21 1/4" ±.001" | | | |
| 44" | ±.005" | 21 1/2" ±.001" | | | |
| 44 1/2" | ±.005" | 21 3/4" ±.001" | | | |
| 45" | ±.005" | 22" ±.001" | | | |
| 45 1/2" | ±.005" | 22 1/4" ±.001" | | | |
| 46" | ±.005" | 22 1/2" ±.001" | | | |
| 46 1/2" | ±.005" | 22 3/4" ±.001" | | | |
| 47" | ±.005" | 23" ±.001" | | | |
| 47 1/2" | ±.005" | 23 1/4" ±.001" | | | |
| 48" | ±.005" | 23 1/2" ±.001" | | | |
| 48 1/2" | ±.005" | 23 3/4" ±.001" | | | |
| 49" | ±.005" | 24" ±.001" | | | |
| 49 1/2" | ±.005" | 24 1/4" ±.001" | | | |
| 50" | ±.005" | 24 1/2" ±.001" | | | |
| 50 1/2" | ±.005" | 24 3/4" ±.001" | | | |
| 51" | ±.005" | 25" ±.001" | | | |
| 51 1/2" | ±.005" | 25 1/4" ±.001" | | | |
| 52" | ±.005" | 25 1/2" ±.001" | | | |
| 52 1/2" | ±.005" | 25 3/4" ±.001" | | | |
| 53" | ±.005" | 26" ±.001" | | | |
| 53 1/2" | ±.005" | 26 1/4" ±.001" | | | |
| 54" | ±.005" | 26 1/2" ±.001" | | | |
| 54 1/2" | ±.005" | 26 3/4" ±.001" | | | |
| 55" | ±.005" | 27" ±.001" | | | |
| 55 1/2" | ±.005" | 27 1/4" ±.001" | | | |
| 56" | ±.005" | 27 1/2" ±.001" | | | |
| 56 1/2" | ±.005" | 27 3/4" ±.001" | | | |
| 57" | ±.005" | 28" ±.001" | | | |
| 57 1/2" | ±.005" | 28 1/4" ±.001" | | | |
| 58" | ±.005" | 28 1/2" ±.001" | | | |
| 58 1/2" | ±.005" | 28 3/4" ±.001" | | | |
| 59" | ±.005" | 29" ±.001" | | | |
| 59 1/2" | ±.005" | 29 1/4" ±.001" | | | |
| 60" | ±.005" | 29 1/2" ±.001" | | | |
| 60 1/2" | ±.005" | 29 3/4" ±.001" | | | |
| 61" | ±.005" | 30" ±.001" | | | |
| 61 1/2" | ±.005" | 30 1/4" ±.001" | | | |
| 62" | ±.005" | 30 1/2" ±.001" | | | |
| 62 1/2" | ±.005" | 30 3/4" ±.001" | | | |
| 63" | ±.005" | 31" ±.001" | | | |
| 63 1/2" | ±.005" | 31 1/4" ±.001" | | | |
| 64" | ±.005" | 31 1/2" ±.001" | | | |
| 64 1/2" | ±.005" | 31 3/4" ±.001" | | | |
| 65" | ±.005" | 32" ±.001" | | | |
| 65 1/2" | ±.005" | 32 1/4" ±.001" | | | |
| 66" | ±.005" | 32 1/2" ±.001" | | | |
| 66 1/2" | ±.005" | 32 3/4" ±.001" | | | |
| 67" | ±.005" | 33" ±.001" | | | |
| 67 1/2" | ±.005" | 33 1/4" ±.001" | | | |
| 68" | ±.005" | 33 1/2" ±.001" | | | |
| 68 1/2" | ±.005" | 33 3/4" ±.001" | | | |
| 69" | ±.005" | 34" ±.001" | | | |
| 69 1/2" | ±.005" | 34 1/4" ±.001" | | | |
| 70" | ±.005" | 34 1/2" ±.001" | | | |
| 70 1/2" | ±.005" | 34 3/4" ±.001" | | | |
| 71" | ±.005" | 35" ±.001" | | | |
| 71 1/2" | ±.005" | 35 1/4" ±.001" | | | |
| 72" | ±.005" | 35 1/2" ±.001" | | | |
| 72 1/2" | ±.005" | 35 3/4" ±.001" | | | |
| 73" | ±.005" | 36" ±.001" | | | |
| 73 1/2" | ±.005" | 36 1/4" ±.001" | | | |
| 74" | ±.005" | 36 1/2" ±.001" | | | |
| 74 1/2" | ±.005" | 36 3/4" ±.001" | | | |
| 75" | ±.005" | 37" ±.001" | | | |
| 75 1/2" | ±.005" | 37 1/4" ±.001" | | | |
| 76" | ±.005" | 37 1/2" ±.001" | | | |
| 76 1/2" | ±.005" | 37 3/4" ±.001" | | | |
| 77" | ±.005" | 38" ±.001" | | | |
| 77 1/2" | ±.005" | 38 1/4" ±.001" | | | |
| 78" | ±.005" | 38 1/2" ±.001" | | | |
| 78 1/2" | ±.005" | 38 3/4" ±.001" | | | |
| 79" | ±.005" | 39" ±.001" | | | |
| 79 1/2" | ±.005" | 39 1/4" ±.001" | | | |
| 80" | ±.005" | 39 1/2" ±.001" | | | |
| 80 1/2" | ±.005" | 39 3/4" ±.001" | | | |
| 81" | ±.005" | 40" ±.001" | | | |
| 81 1/2" | ±.005" | 40 1/4" ±.001" | | | |
| 82" | ±.005" | 40 1/2" ±.001" | | | |
| 82 1/2" | ±.005" | 40 3/4" ±.001" | | | |
| 83" | ±.005" | 41" ±.001" | | | |
| 83 1/2" | ±.005" | 41 1/4" ±.001" | | | |
| 84" | ±.005" | 41 1/2" ±.001" | | | |
| 84 1/2" | ±.005" | 41 3/4" ±.001" | | | |
| 85" | ±.005" | 42" ±.001" | | | |
| 85 1/2" | ±.005" | 42 1/4" ±.001" | | | |
| 86" | ±.005" | 42 1/2" ±.001" | | | |
| 86 1/2" | ±.005" | 42 3/4" ±.001" | | | |
| 87" | ±.005" | 43" ±.001" | | | |
| 87 1/2" | ±.005" | 43 1/4" ±.001" | | | |
| 88" | ±.005" | 43 1/2" ±.001" | | | |
| 88 1/2" | ±.005" | 43 3/4" ±.001" | | | |
| 89" | ±.005" | 44" ±.001" | | | |
| 89 1/2" | ±.005" | 44 1/4" ±.001" | | | |
| 90" | ±.005" | 44 1/2" ±.001" | | | |
| 90 1/2" | ±.005" | 44 3/4" ±.001" | | | |
| 91" | ±.005" | 45" ±.001" | | | |
| 91 1/2" | ±.005" | 45 1/4" ±.001" | | | |
| 92" | ±.005" | 45 1/2" ±.001" | | | |
| 92 1/2" | ±.005" | 45 3/4" ±.001" | | | |
| 93" | ±.005" | 46" ±.001" | | | |
| 93 1/2" | ±.005" | 46 1/4" ±.001" | | | |
| 94" | ±.005" | 46 1/2" ±.001" | | | |
| 94 1/2" | ±.005" | 46 3/4" ±.001" | | | |
| 95" | ±.005" | 47" ±.001" | | | |
| 95 1/2" | ±.005" | 47 1/4" ±.001" | | | |
| 96" | ±.005" | 47 1/2" ±.001" | | | |
| 96 1/2" | ±.005" | 47 3/4" ±.001" | | | |
| 97" | ±.005" | 48" ±.001" | | | |
| 97 1/2" | ±.005" | 48 1/4" ±.001" | | | |
| 98" | ±.005" | 48 1/2" ±.001" | | | |
| 98 1/2" | ±.005" | 48 3/4" ±.001" | | | |
| 99" | ±.005" | 49" ±.001" | | | |
| 99 1/2" | ±.005" | 49 1/4" ±.001" | | | |
| 100" | ±.005" | 49 1/2" ±.001" | | | |
| 100 1/2" | ±.005" | 49 3/4" ±.001" | | | |
| 101" | ±.005" | 50" ±.001" | | | |