

# PNEUMO HYDRAULIC POWER CYLINDER

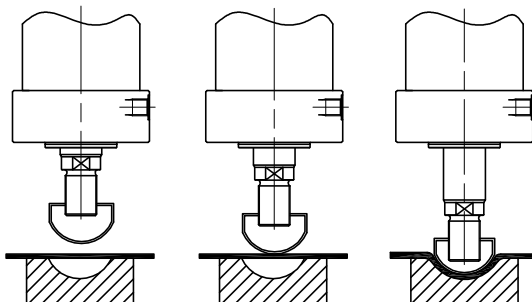
## WITH IN-BUILT POSITION SENSING AND LOAD MONITORING



### DESCRIPTION

For the first time in India we are introducing in-built load and position monitoring sensor. This unit is an integrated air hydraulic cylinder together with reservoir, the air cylinder gives rapid approach of the piston rod towards work. The hydraulic cylinder acts as an intensifier raising the hydraulic pressure on the piston to generate a large force and the piston rod will have a stroke of max 32mm under hydraulic pressure at any point of stroke of air cylinder. The intensification point is manually selected and pressurized by a solenoid direction control valve.

### TYPICAL EXAMPLE OF APPLICATION



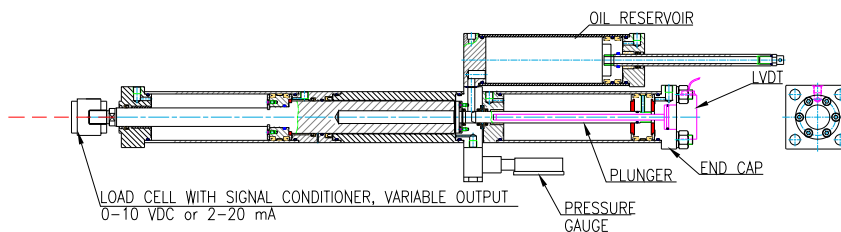
The pneumo hydraulic power cylinder can be used for Blanking, Drawing, Forming, Stamping, Riveting and Press Fitting of Bushes, Linear bearings to Housing

### FEATURES

- Output force can be varied
- High cycle rates for increased Production
- Hydraulic power packs not required
- Compact device
- Built-in LVDT for stroke sensing
- Seal life up to 10 Million cycles
- Application: General & Special Purpose
- Pneumatic forces: 1-4 tons
- Total stroke: upto 200mm
- Power stroke: upto 32mm
- Operating pressure: upto 10bar

### Force chart in KN

| MODEL  | AIR PRESSURE IN BAR |      |      |
|--------|---------------------|------|------|
|        | 3                   | 4    | 5    |
| P13020 | 4.5                 | 6.5  | 9.7  |
| P13021 | 11.5                | 15.5 | 19.5 |
| P13022 | 26.1                | 34.9 | 43.6 |
| P13023 | 30                  | 40   | 50   |



### NOTE

1. This configuration of pneumo hydraulic power cylinder should always be mounted vertically with the front flange mounting.
2. Ordering specification for seal kit. Add prefix "SK" to the model number. Only specialist/service personnel can change the seal.
3. Max. force during power stroke only.

### SPECIFICATION:

Type : PNEUMO HYDRAULIC POWER CYLINDER  
 Total Stroke = Approach Stroke + Power Stroke  
 Medium: Hydraulic Oil (Servo System 32)  
 And Filtered Lubricated Air

\*Specifications subject to improvements.

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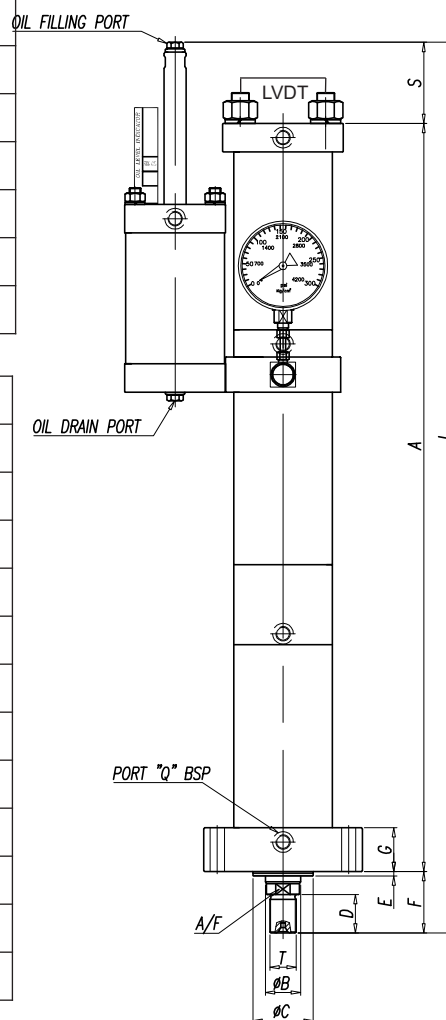
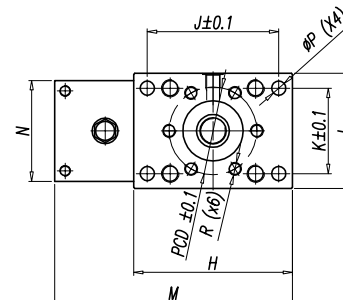
## DIMENSION CHART

| SL NO. | MODEL NO.     | A   | L   | S    |
|--------|---------------|-----|-----|------|
| 01     | P13020-50/6   | 464 | 512 | 1    |
| 02     | P13020-100/6  | 564 | 682 | 71   |
| 03     | P13020-150/6  | 664 | 842 | 131  |
| 04     | P13020-50/12  | 501 | 548 | -36  |
| 05     | P13020-100/12 | 601 | 702 | 54   |
| 06     | P13020-150/12 | 701 | 842 | 94   |
| 07     | P13020-75/24  | 626 | 673 | -111 |
| 08     | P13020-100/24 | 676 | 723 | -51  |
| 09     | P13020-150/24 | 776 | 842 | 19   |

| SL NO. | MODEL NO.     | A   | L    | S   |
|--------|---------------|-----|------|-----|
| 01     | P13021-50/6   | 563 | 662  | 43  |
| 02     | P13021-100/6  | 613 | 787  | 118 |
| 03     | P13021-150/6  | 713 | 987  | 218 |
| 04     | P13021-200/6  | 813 | 1187 | 318 |
| 05     | P13021-50/12  | 564 | 620  | -8  |
| 06     | P13021-100/12 | 664 | 787  | 67  |
| 07     | P13021-150/12 | 764 | 987  | 167 |
| 08     | P13021-200/12 | 864 | 1187 | 267 |
| 09     | P13021-100/24 | 758 | 814  | -27 |
| 10     | P13021-150/24 | 858 | 988  | 74  |
| 11     | P13021-200/24 | 970 | 1188 | 162 |

| SL NO. | MODEL NO.     | A   | L    | S   |
|--------|---------------|-----|------|-----|
| 01     | P13022-50/6   | 546 | 610  | 5   |
| 02     | P13022-100/6  | 646 | 790  | 85  |
| 03     | P13022-150/6  | 746 | 970  | 165 |
| 04     | P13022-200/6  | 864 | 1170 | 265 |
| 05     | P13022-50/12  | 590 | 650  | -40 |
| 06     | P13022-100/12 | 690 | 790  | 41  |
| 07     | P13022-150/12 | 790 | 970  | 121 |
| 08     | P13022-200/12 | 890 | 1170 | 221 |
| 09     | P13022-75/24  | 724 | 783  | -84 |
| 10     | P13022-100/24 | 774 | 833  | -44 |
| 11     | P13022-150/24 | 874 | 970  | 37  |
| 12     | P13022-200/24 | 974 | 1170 | 137 |

| SL NO. | MODEL NO.     | A   | L    | S   |
|--------|---------------|-----|------|-----|
| 01     | P13023-50/6   | 571 | 635  | 5   |
| 02     | P13023-100/6  | 671 | 815  | 85  |
| 03     | P13023-150/6  | 771 | 995  | 165 |
| 04     | P13023-200/6  | 889 | 1195 | 265 |
| 05     | P13023-50/12  | 615 | 675  | -40 |
| 06     | P13023-100/12 | 715 | 815  | 41  |
| 07     | P13023-150/12 | 815 | 995  | 121 |
| 08     | P13023-200/12 | 915 | 1195 | 221 |
| 09     | P13023-75/24  | 749 | 808  | -84 |
| 10     | P13023-100/24 | 799 | 858  | -44 |
| 11     | P13023-150/24 | 899 | 995  | 37  |
| 12     | P13023-200/24 | 999 | 1195 | 137 |



| SLNO. | MODEL NO. | T      | ØB | ØC | D  | E | F    | G  | H   | I   | J   | K   | M   | N   | ØP   | Q    | R   | PCD | A/F |
|-------|-----------|--------|----|----|----|---|------|----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| 03    | P13022/23 | M36x2P | 50 | 75 | 35 | 5 | 59.5 | 40 | 195 | 146 | 165 | 108 | 295 | 142 | 17   | 1/2" | M16 | 105 | 46  |
| 02    | P13021    | M24x2P | 32 | 55 | 35 | 4 | 56   | 40 | 145 | 105 | 120 | 78  | 205 | 92  | 13   | 1/4" | -   | -   | 27  |
| 01    | P13020    | M20x2P | 25 | 45 | 28 | 4 | 47   | 30 | 110 | 76  | 88  | 55  | 155 | 74  | 10.5 | 1/4" | -   | -   | 19  |

\*Specifications subject to improvements.

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