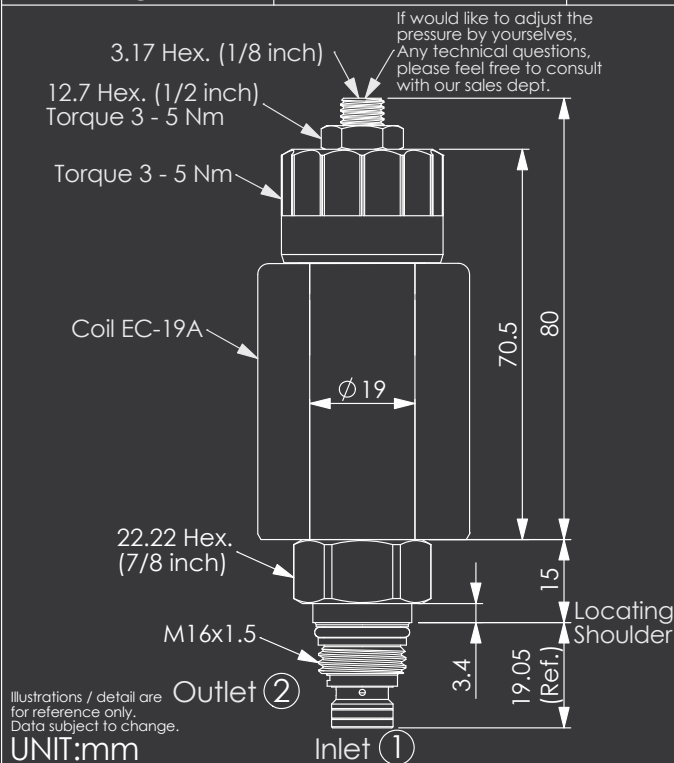


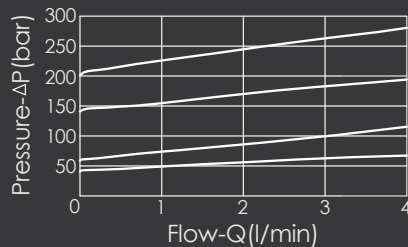
# PILOT CAPACITY PROPORTIONAL RELIEF VALVE

(Inverse Direct Acting, High Pressure Setting with No Command)

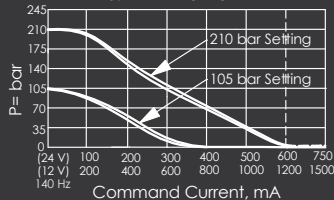
Ordering Code: **PRA-8A-X-Y-Z-74**



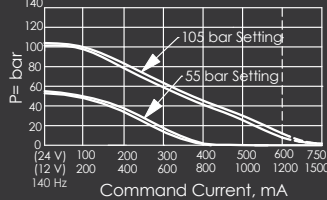
Pressure Differential vs. Flow



Pressure vs. Command (Range "A")  
0.4 LPM Inlet flow



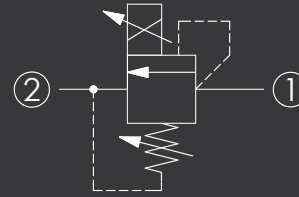
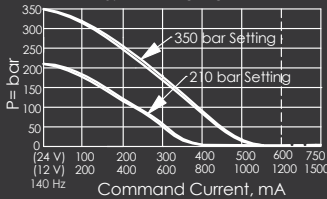
Pressure vs. Command (Range "B")  
0.4 LPM Inlet flow



Pressure vs. Command (Range "D")  
0.4 LPM Inlet flow



Pressure vs. Command (Range "W")  
0.4 LPM Inlet flow



## TECHNICAL DATA

Max. Operating pressure: 350 bar

Rated flow: 1 l/min  
(Max. flow: 2 l/min)  
(Refer To Performance Chart)

Cavity-Tooling: 8A-2

Installation torque: 27 - 33 Nm

Weight: 0.211 kg (Without Coil)

Coils must be ordered separately

- Maximum Valve Leakage at Reseat Approximately (25 cc/min.)
- Reseat exceeds 85% of cracking pressure
- Back pressure on the tank port (port ②) is directly additive at a 1:1 ratio to valve setting
- Hysteresis with DC input < 8%
- Hysteresis with dither < 4%
- Linearity with dither < 2%
- To achieve optimal performance, it is recommended to use a current-sensing amplifier with a dither function. The dither frequency should be adjustable between 100 Hz and 250 Hz. (recommended range: 140 - 200 Hz)

**X**

## OPERATION

**2D**

2 Ports - 22 Watt. Coil  
Ø 19 mm tube

**Y**

## HIGH PRESSURE ADJUSTMENT RANGES (RECOMMEND PRESSURE RANGE)

Customer has to specify a relief setting that falls within the selected pressure range

**A**

210 - 105 bar

**B**

105 - 55 bar

**D**

55 - 20 bar

**W**

350 - 210 bar

- High pressure setting with no command.
- The factory pressure setting is based on using with main valve RV11A30CL.
- In order to meet the pressure requirement and reduce the setting inaccuracy, please contact Motus if you need pressure setting and inform the main valve you are going to use with.
- If pressure control beyond the range is required, please contact the Motus sales department.

**Z**

## OPTIONS

**L**

Leakproof hex. socket screw. (Standard Type)

