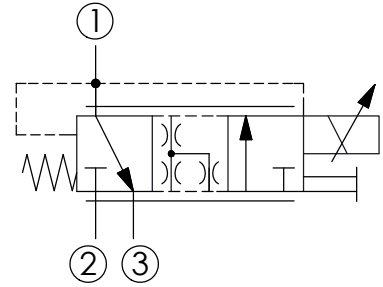
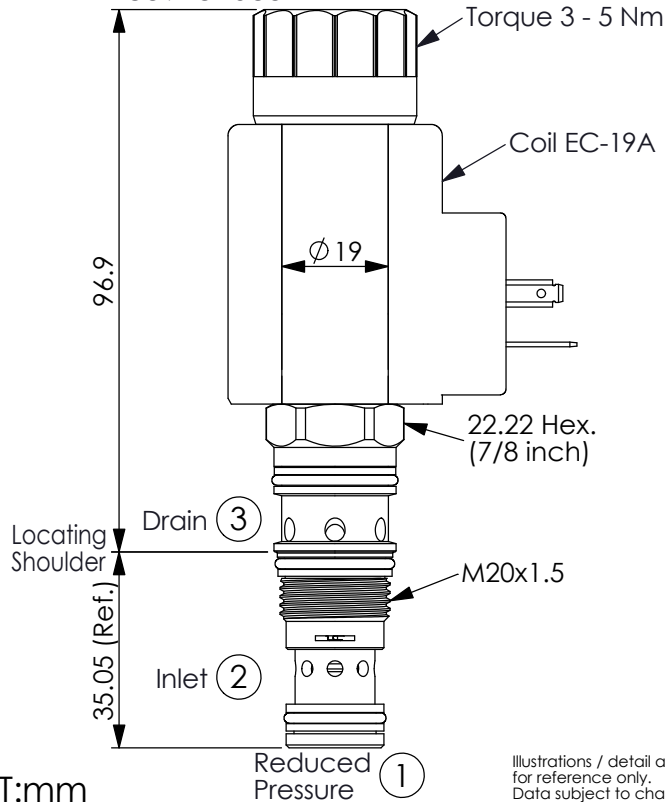


Ordering Code: **PPD-11A-X-Y-Z-74-3**

U.S. PATENT US9234605



### TECHNICAL DATA

Max. Operating pressure: 350 bar

Rated flow: 20 l/min

Cavity-Tooling: 11A-3

Installation torque: 40 - 50 Nm

Linearity (with dither) <2%

Repeatability (with dither) <2%

Hysteresis (with dither) <4%

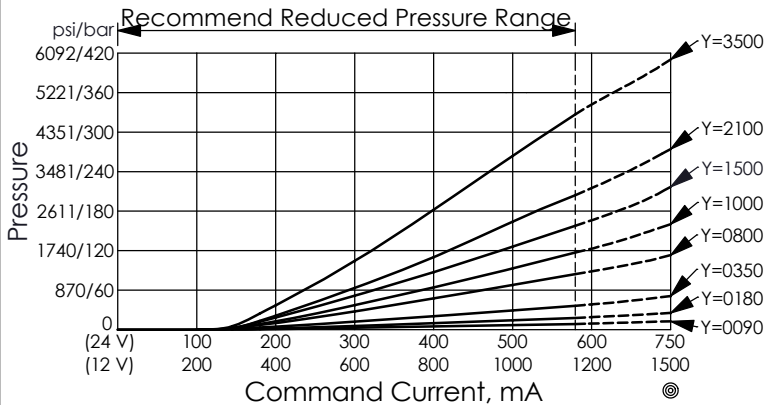
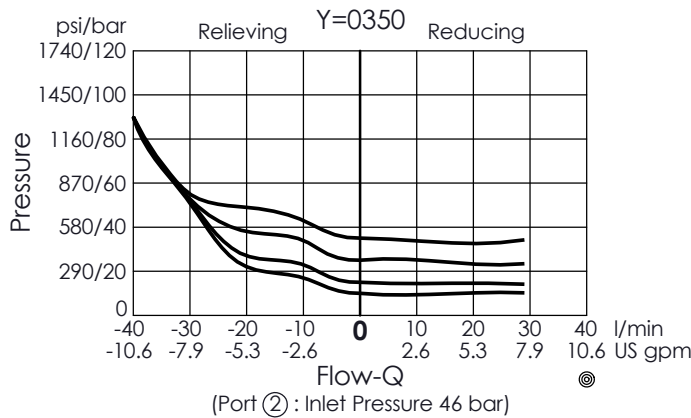
Hysteresis with DC input <8%

**Maximum valve leakage approximately= 400 cc/min.**

This leakage is measured at port ③ when port ② is pressurized to 350 bar and the pressure setting at port ① is 35 bar.

Weight:(with Coil) 0.499 kg  
(without Coil) 0.259 kg

Hydraulic Fluid Viscosity - Cleanliness - Temperature Level:  
Please refer WINNER technical information.  
( T.101.101.E HYDRAULIC FLUID (A) VISCOSITY )  
( T.101.102.E HYDRAULIC FLUID (B) CLEANLINESS )  
( T.101.103.E HYDRAULIC FLUID (C) TEMPERATURE )



### OPERATING RANGE

Y	Rated Pressure	
0090	1 - 9 bar	
0180	1 - 18 bar	
0350	1 - 35 bar	
0800	2 - 80 bar	
1000	10 - 100 bar	
1500	10 - 150 bar	
2100	20 - 210 bar	
3500	35 - 350 bar	

- When inlet pressure up to 210 - 350 bar, Recommend : Keep "Reduced Pressure" (Port ①) minimum 30 bar to have best control.
- Basically, this valve can be used under 1 bar but please kindly be noted that the back pressure of port ③ will add to the valve setting at 1:1 ratio.
- If your operation need to control under 10 bar, please contact the Winner sales department.  
Example: Y=1000 · Y=1500 · Y=2100 · Y=3500
- During the transition from pressure-reducing (port ② to port ①) to pressure-relieving (port ① to port ③), a slight open overlap ensures stable pressure control. However, this may cause a pilot flow loss of approximately 200 cc/min., particularly during transitions under dead-head conditions.

### X OPERATION

3D

3 Ports · 22 Watt. Coil  
Ø 19 mm tube

### Z OPTIONS

N

Non-adjustable



P

Push Style  
Manual Override

