Dexter	Proportional Electro-Hydraulic Relif and Flow Control Valves,Type PQ10-20/140-125			RE 24750/06.2004
	Size 10	up to 14 MPa	up to 125 L/min	Replaces：

Features:

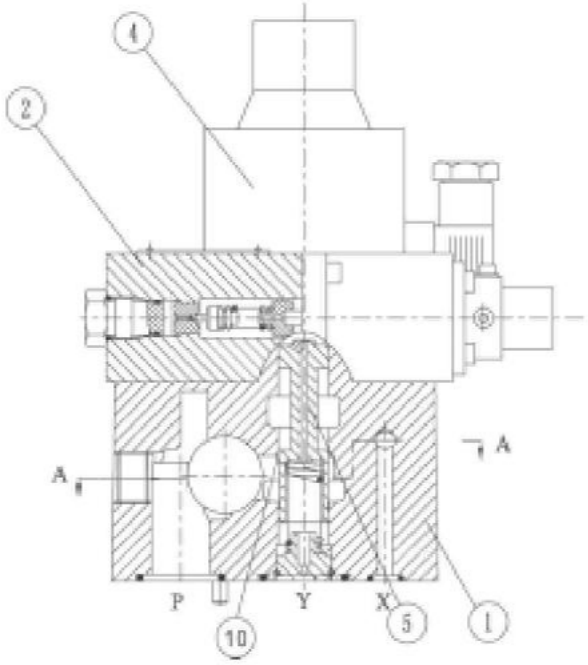
- For subplate mounting
- Protected by high voltage
- Output flows scale by input elec-messages
- System Pressure could achieve the changes to scale

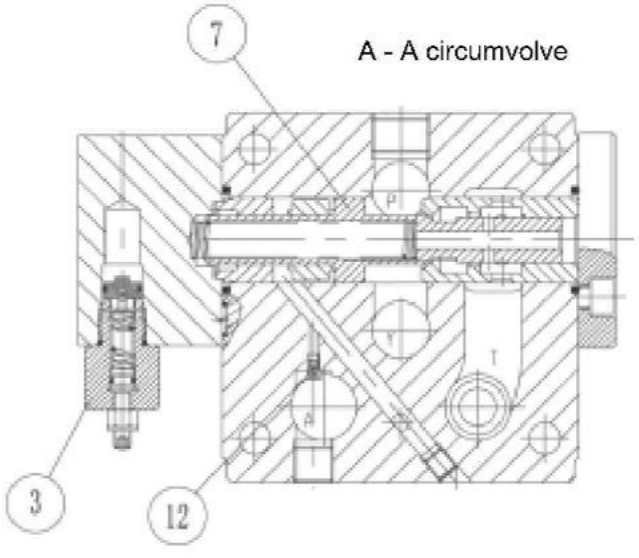
Function, section;Symbol

This pressure and flow control valve is an energy-saving valve that can adjust the pressure and flow of system proportional to electrical sign。

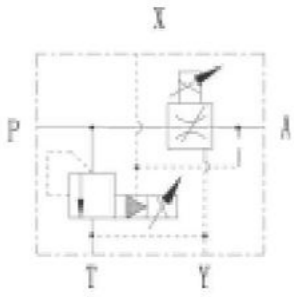
Since the valves controls the pump pressure by following the load pressure while keeping the differential pressure minimized,it serves as a low power-consumption energy-saving ,meter-in,controlled flow control valve.

Further,since a temperature compensation function is incorporated,this valve provides consistent flow control without respect to the fluid temperature.





Symbol:



Ordering details

PQ	10	—	20		/	140	125		*

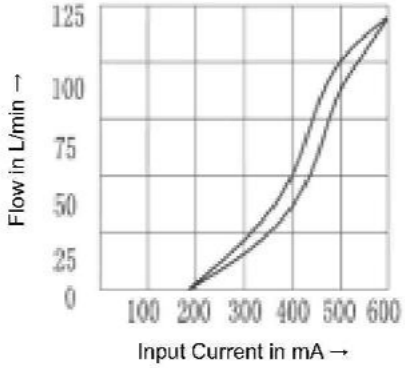
- Proportional Electro-Hydraulic pressure and Flow Control Valves
- Nominal size 10 = 10
- 20 = Series 20 to 29 (20 to 29: unchanged installation and connection dimensions)
- 140 = Pressure stage 140
- 125 = Max. Flow 125 L/min
- No code = NBR seals; V = FPM seals
- Further details in clear text

Technical data (for applications outside these parameters, please consult us!)

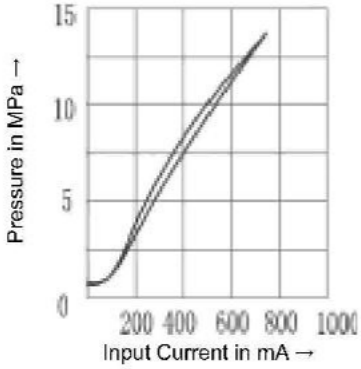
Pressure fluid			Mineral oil(for NBR seal).
			Phosphate ester (for FPM seal)
Pressure fluid temperature range		(℃)	- 30 to + 80 (with NBR seals)
			- 20 to + 80 (with FKM seals)
Viscosity range		(mm^2/s)	2.8 to 500
Degree of contamination			Maximum permissible degree of contamination of the pressure fluid is to NAS 1638
			class 9. We, therefore, recommend a filter with a minimum retention rate of $\beta_{x} \geq 75$.
Max. operating pressure		(MPa)	to 14
Max. flow		(L/min)	to 125
Pressure fluid flow range		(L/min)	1～125
Flow Controls	Rated Current	(L/min)	680
	Coil Resisitance	(Ω)	43.5
	Differential Pressure	(MPa)	0.6
	Hysteresis		7%
	Repeatabibly		1%
Pressure Controls	Pressure Adjust Range	(MPa)	0.8～14
	Rated Current		710
	Coil Resisitance	(Ω)	10
	Hysteresis		3%
	Repeatabibly		1%
Weight		(Kg)	16

Operating Curves (measured at v =41 × $10^{-6}m^2/S$ t=50℃)

Relationship of the flow to the input current



Relationship of the pressure to the input current



Unit dimensions: **(Dimensions in mm)**