

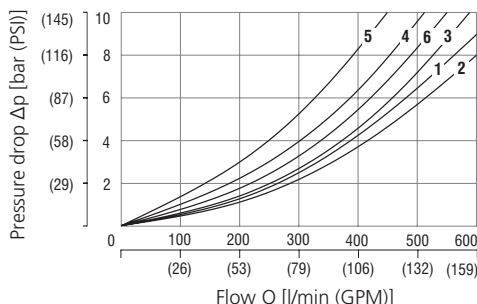
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Operating limits

Operating limits for maximum hydraulic power at rated temperature and supplied with voltage equal to 90 % of the nominal value

Maximum flow rates in l/min (GPM)	at pressure	
	210 bar (3050 PSI)	320 bar (4640 PSI)
Spool type C11	500 (133)	450 (119)
All other spools	600 (159)	500 (133)

Pressure drop related to flow rate



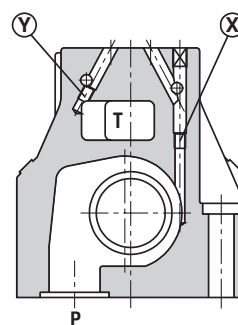
	Spool position	P-A	P-B	A-T	B-T	P-T
Z11, J17, J27	Energized	1	1	2	3	
H11	De-energized					6*
	Energized	5	5	1	2	
Y11	De-energized			4**	4***	
	Energized	1	1	1	2	
C11	De-energized					6
	Energized	6	6	3	4	
R51, R52, X51, X52	De-energized		1	2		
	Energized	1	1	2	3	
P11	De-energized	4**	4***			
	Energized	2	2	2	3	

* A-B blocked ** B blocked *** A blocked

Pilot and Drain

The RNEXH valves are available with pilot and drain, both internal and external.

X: plug M6x8 for external pilot
Y: plug M6x8 for external drain



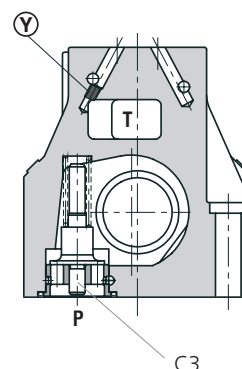
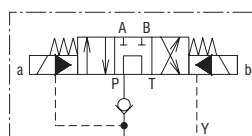
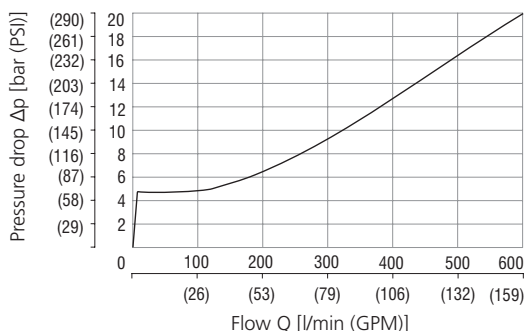
Type of valve		Plug assembly	
		X	Y
RNEXH4-25**/*	internal pilot and external drain	NO	YES
RNEXH4-25**/*I	internal pilot and internal drain	NO	NO
RNEXH4-25**/*E	external pilot and external drain	YES	YES
RNEXH4-25**/*EI	external pilot and internal drain	YES	NO

Check Valve Incorporated in Line P

Check valve incorporated in line P: C3

Valves RNEXH are available with a back pressure valve incorporated in line P (Type „C3“). This is necessary to obtain the piloting pressure when the control valve (in the rest position) has the line P connected to the port T (spools H11, C11, R52, X52, J27). The cracking pressure is 5 bar with a minimum flow rate of 15 l/min.

Back pressure valve incorporated on line P (type C3)



pilot always internal
Y: plug M6x8 for external drain

The curve refers to the pressure drop (body part only) with back pressure valve energized to which the pressure drop of the reference spool must be added.



In the C3 version the piloting is always internal.

The back pressure valve can't be used as a check valve because it doesn't guarantee sealing.

The back pressure valve can be also delivered separately and it can be easily mounted in line P of the main control valve. Specify the code to order the back pressure valve separately from the spare part data sheet No. 8010.

For detail information on the pilot valve RPEX3-06 refer to data sheet No. 4054.

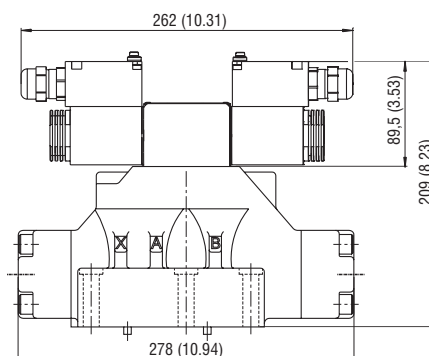
Actuation in millimeters (inches)

Solenoid control: RNEXH

The valve is supplied with an RPEX3-06 pilot solenoid valve.

The minimum piloting pressure can be as low as 5 bar at low flow rates, but with higher flow rates a pressure of 12 bar is needed.

If the valve operates with higher pressures it is necessary to use the version with external pilot and reduced pressure. Otherwise, the valve with internal pilot and a pressure reducing valve with a 30 bar fixed setting can be ordered.



Control Options - Special Features

Control of the main spool shifting speed: D

By placing a flow control valve between the pilot solenoid valve and the hydropiloted valve, the pilot flow rate can be controlled and therefore the shifting speed adjusted. Add the letter **D** to the identification code to request this device.

Pilot pressure reducing valve - 30 bar fixed setting: Z

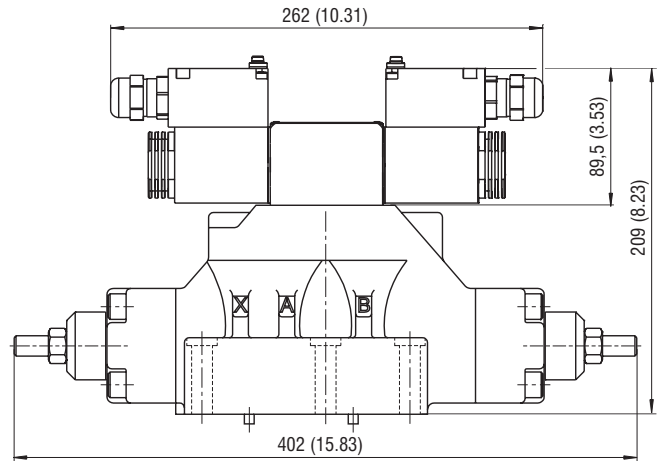
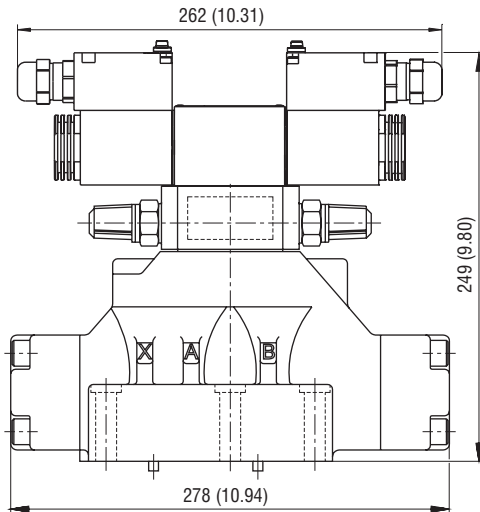
Internal piloting with mounted pressure reducing valve with 30 bar fixed setting. The option **Z** may be used together with option **D**.

Control of the main spool stroke: C

Using special side plugs, it is possible to introduce stroke control the piloted valve so as to vary the maximum spool opening clearance. This solution allows the control of the flow rate from the pump to the actuator and from the actuator to the outlet, resulting in double adjustable control of the actuator. Add the letter **C** to the identification code to request this device.

Shifting speed control: PF

with an orifice (0.8 mm) in port P of the solenoid pilot valve
Add **PF** to the identification code to request this device

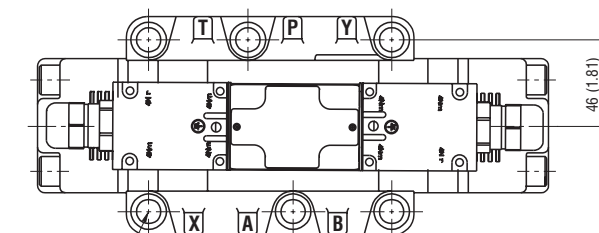
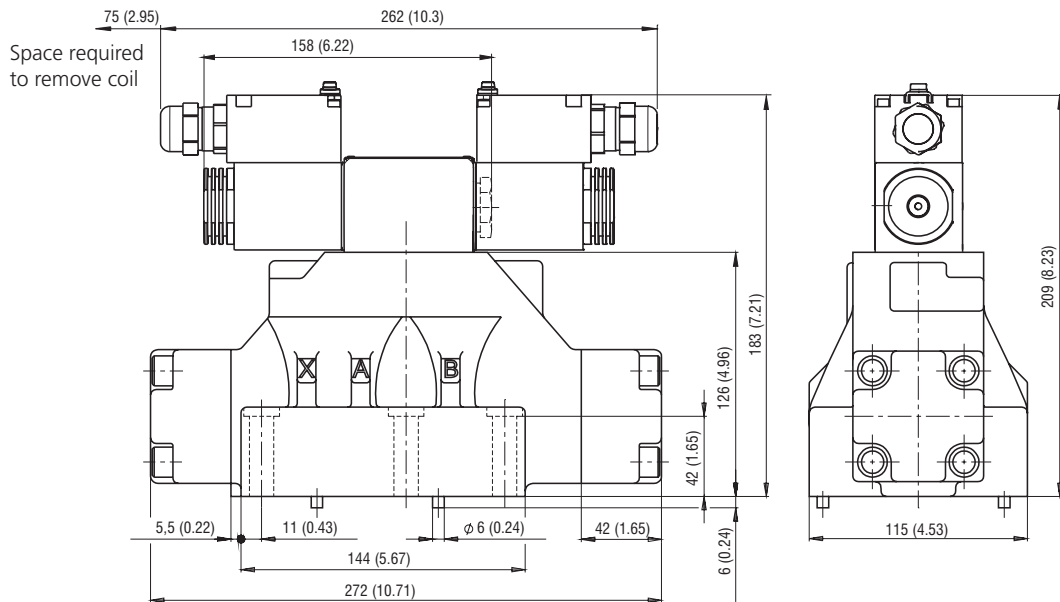


Solenoid operated distributor with pilot valve in the configuration 3H11

It is possible to deliver the solenoid operated distributor with the pilot valve in configuration 3H11 (all the ports at the outlet). This configuration is used with external piloting in order to allow the unloading of the piloting line when the solenoid operated valve is in the rest position. With this option, the piloting is necessarily external.

Dimensions in millimeters (inches)

RNEXH4-253



6x M12x60* (bolts A10.9)
115 Nm (84.8 lbf.ft)

mounting hole threads: M12x20 (1/2-13 UNC)

*bolts not supplied