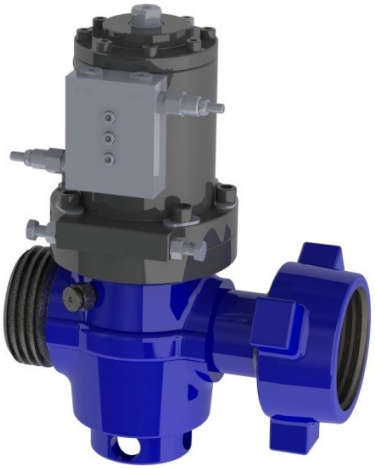
HYDRAULIC ACTUATORS APR-2025

DOUBLE-ACTING HELICAL ACTUATORS FOR
QUARTER-TURN APPLICATIONS



HYAC-300NM-PV
MOUNTED TO 2x1 LT PLUG VALVE

HYAC-1000NM-PV
MOUNTED TO 2x2 LT PLUG VALVE

HYAC-3500NM-PV
MOUNTED TO 3x3 LT PLUG VALVE

HYAC-PV—HYDRAULIC DOUBLE-ACTING ACTUATORS

IFE offers 3 models of double-acting helical hydraulic actuators in 300 Nm (275 ft-lbf), 1000 Nm (754 ft-lbf) & 3500 Nm (2636 ft-lb-f) for 2x1, 2x2 & 3x3 plug valve applications.

These units ship with unmachined valve mount & stem adaptors. Simply machine to suit your particular valve mount bolt pattern & valve stem.

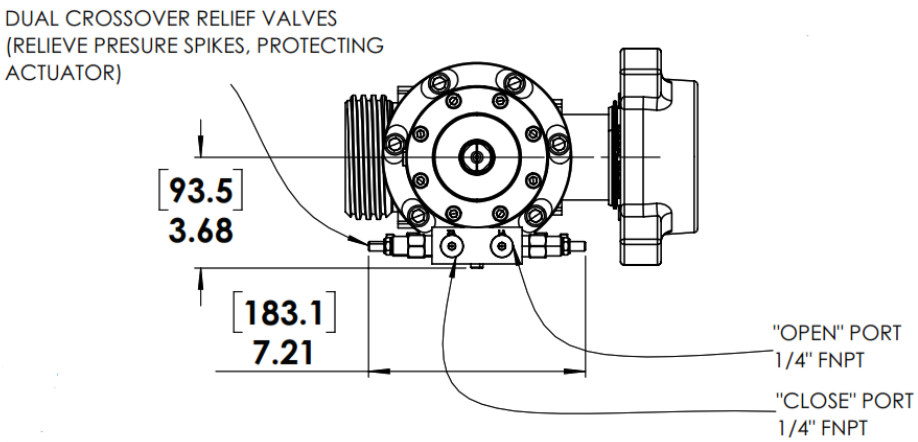
These rugged units also include a dual crossport relief valve—to protect the actuator from sudden hydraulic pressure spikes.

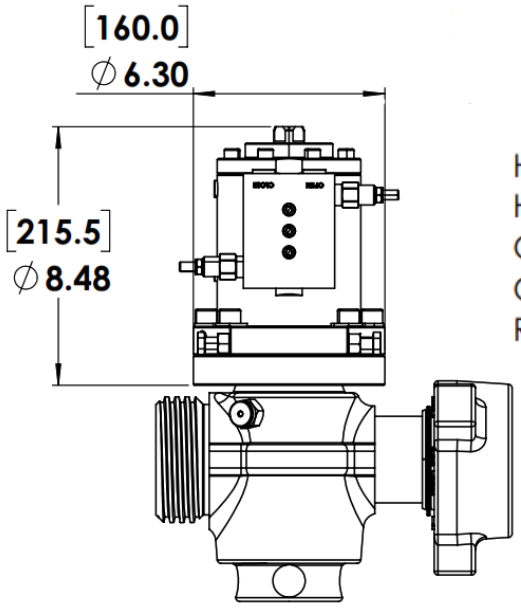
Specifications

	HYAC-300-NM	**HYAC-1000-NM**	**HYAC-3500-NM**
Actual Output Torque at Rated Hydraulic Pressure ft-lbf (Nm)	221 (300)	754 (1022)	2636 (3574)
Rated Hydraulic Pressure PSI (MPa)	2000 PSI (13.79)	2000 PSI (13.79)	2000 PSI (13.79)
Maximum Hydraulic Pressure	4500 PSI (31 MPa)	4500 PSI (31 MPa)	4500 PSI (31 MPa)
Actual Output Torque at Maximum Hydraulic Pressure ft-lbf (Nm)	495 (671)	1696 (2299)	5932 (8043)
Oil displacement volume	0.133 L	0.237 L	0.683 L
Est. Shipping Weight lb (Kg)	45.2 (20.5)	58.2 (26.4)	129 (58.5)
Hydraulic port connections	1/4” FNPT	1/4” FNPT	1/4” FNPT

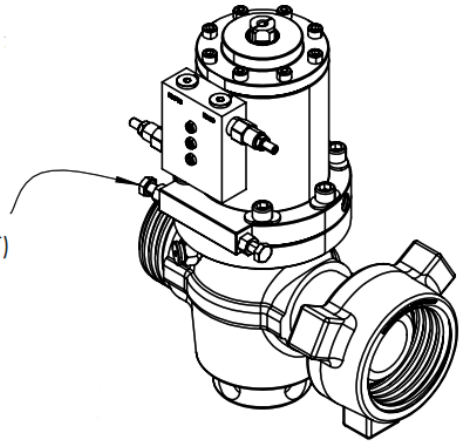
HYAC-PV—HYDRAULIC DOUBLE-ACTING ACTUATORS

HYAC-PV-300NM

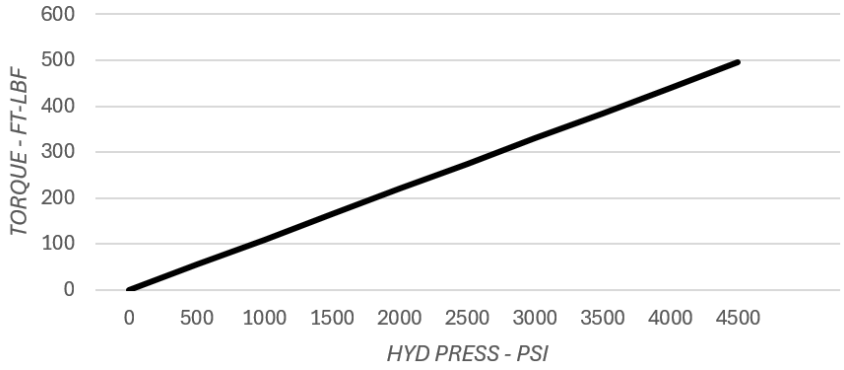




HYD. SUPPLY PRESSURE: 2000 PSI = 300 Nm (220 ft/lb-f)
HYD. TEST PRESSURE (MAX.): 4500 PSI = 675 Nm (500 ft/lb-f)
OIL DISPLACEMENT VOLUME: 0.133L
OPERATING TEMPERATURE: -40° C (-40° F) ~ +70° C (158° F)
ROTATION: 90°- 92°

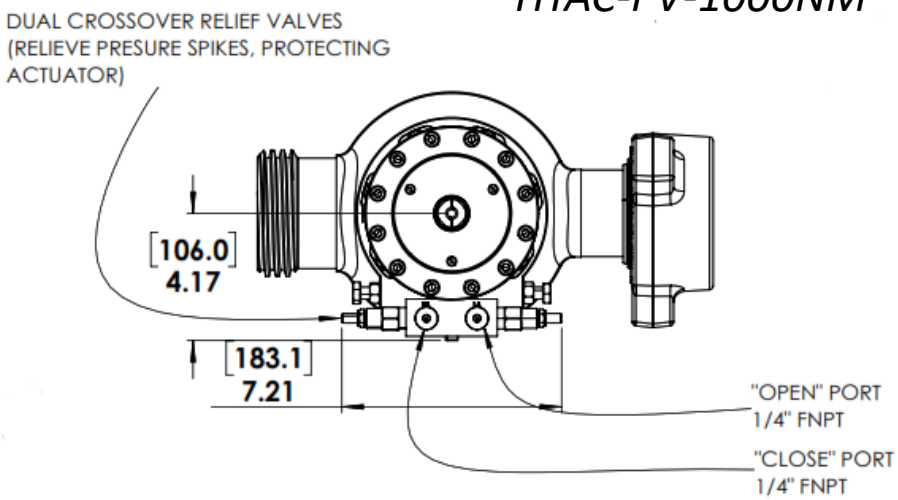


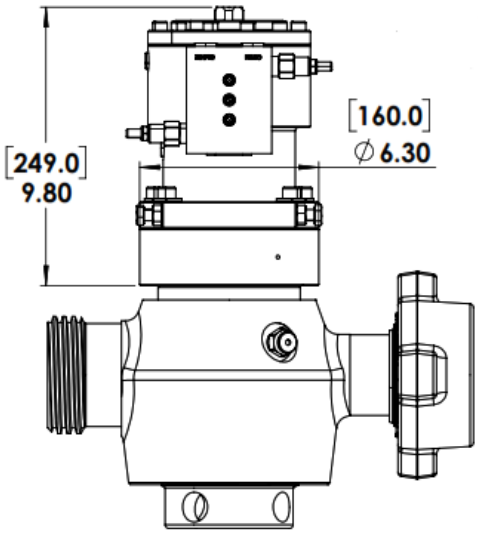
PSI - TORQUE (FT/LB-F)



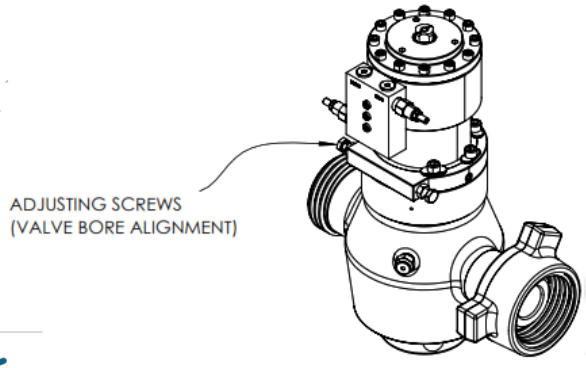
HYAC-PV—HYDRAULIC DOUBLE-ACTING ACTUATORS

HYAC-PV-1000NM

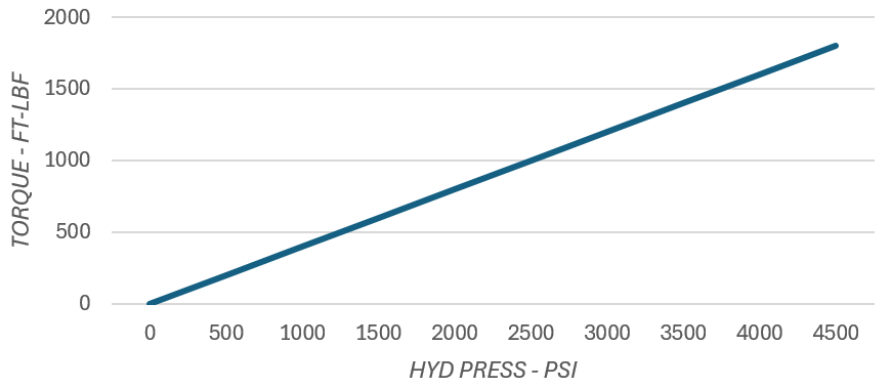




HYD. SUPPLY PRESSURE: 2000 PSI = 1022 Nm (754 ft/lb-f)
HYD. TEST PRESSURE (MAX.): 4500 PSI = 2300 Nm (1696 ft/lb-f)
OIL DISPLACEMENT VOLUME: 0.237L
OPERATING TEMPERATURE: -40° C (-40° F) ~ +70° C (158° F)
ROTATION: 90°- 92°

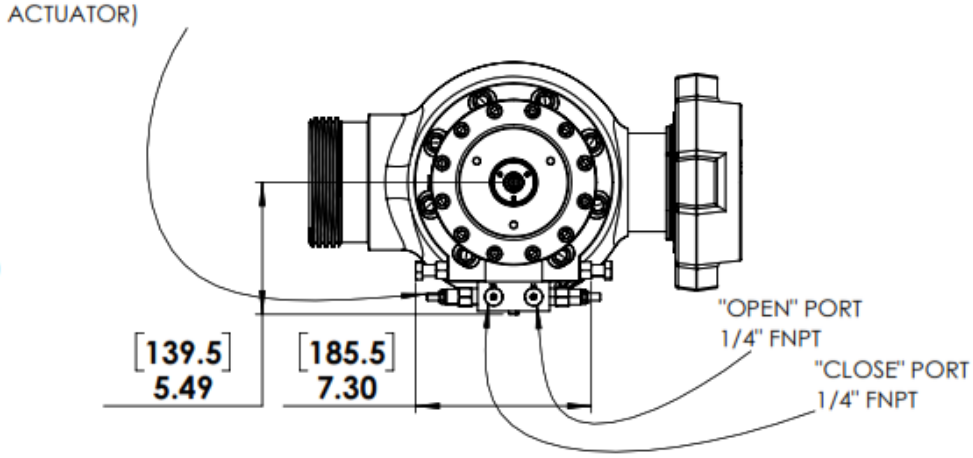


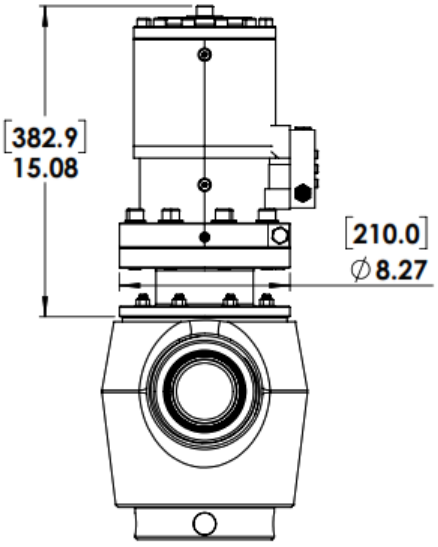
PSI - TORQUE (FT/LB-F)



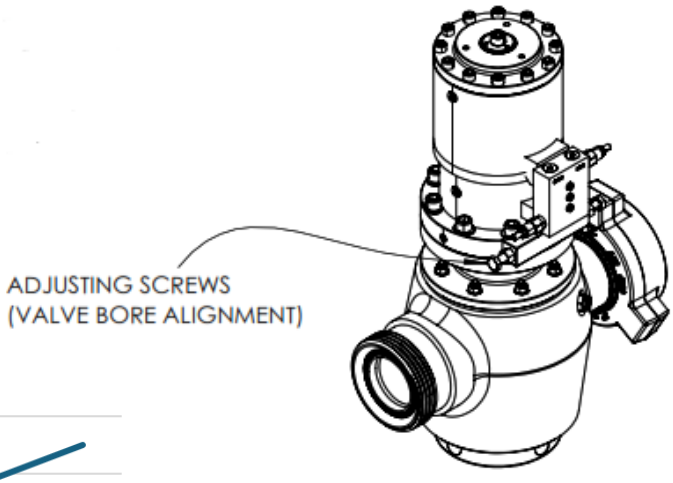
HYAC-PV—HYDRAULIC DOUBLE-ACTING ACTUATORS

HYAC-PV-3500NM

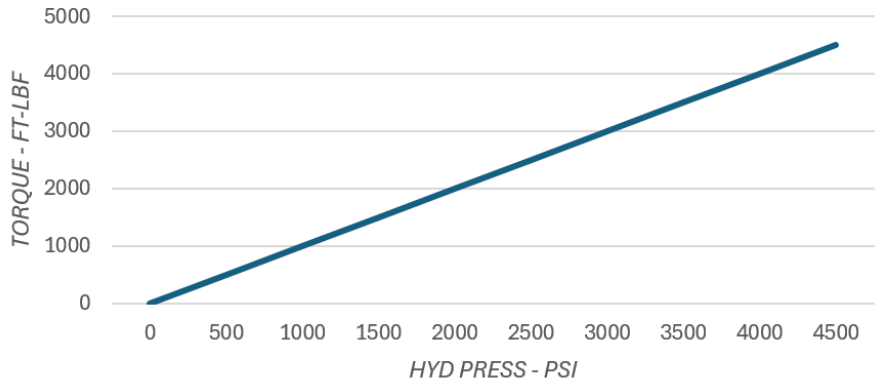




HYD. SUPPLY PRESSURE: 2000 PSI = 3574 Nm (2636 ft/lb-f)
HYD. TEST PRESSURE (MAX.): 4500 PSI = 8043 Nm (5932 ft/lb-f)
OIL DISPLACEMENT VOLUME: 0.683L
OPERATING TEMPERATURE: -40° C (-40° F) ~ +70° C (158° F)
ROTATION: 90°- 92°



PSI - TORQUE (FT/LB-F)



Integral Flow Equipment Inc

#100, 310 Burnt Park Way

Red Deer AB T4S 2L4

Ph. 1-403-349-8958

Email: *sales@integralflowinc.com*