

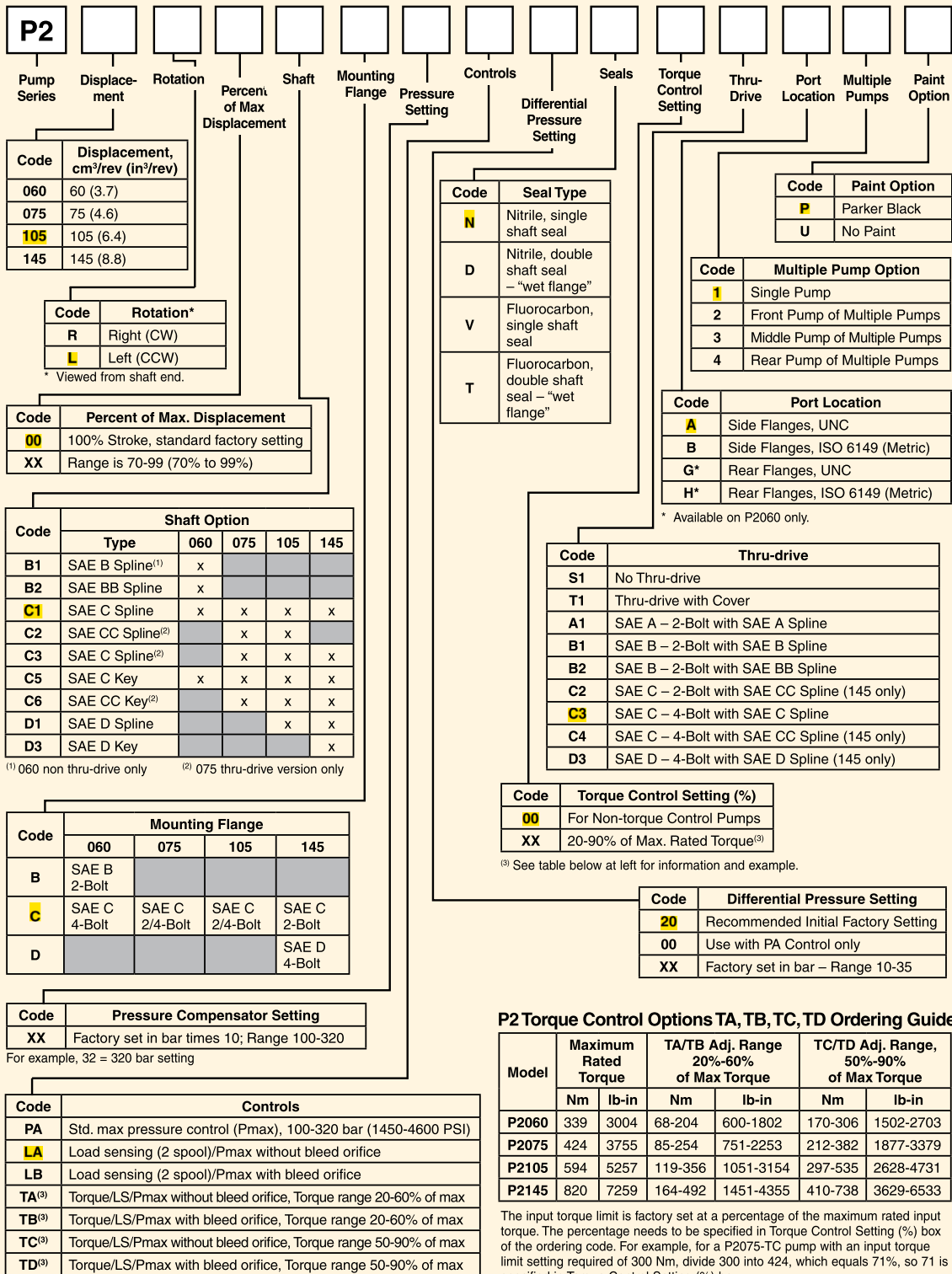
P2/P3 Series Piston Pumps Variable Displacement

Catalog: HY28-1559-01/PT
Supercedes All Previous Versions

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
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P2 Torque Control Options TA, TB, TC, TD Ordering Guide

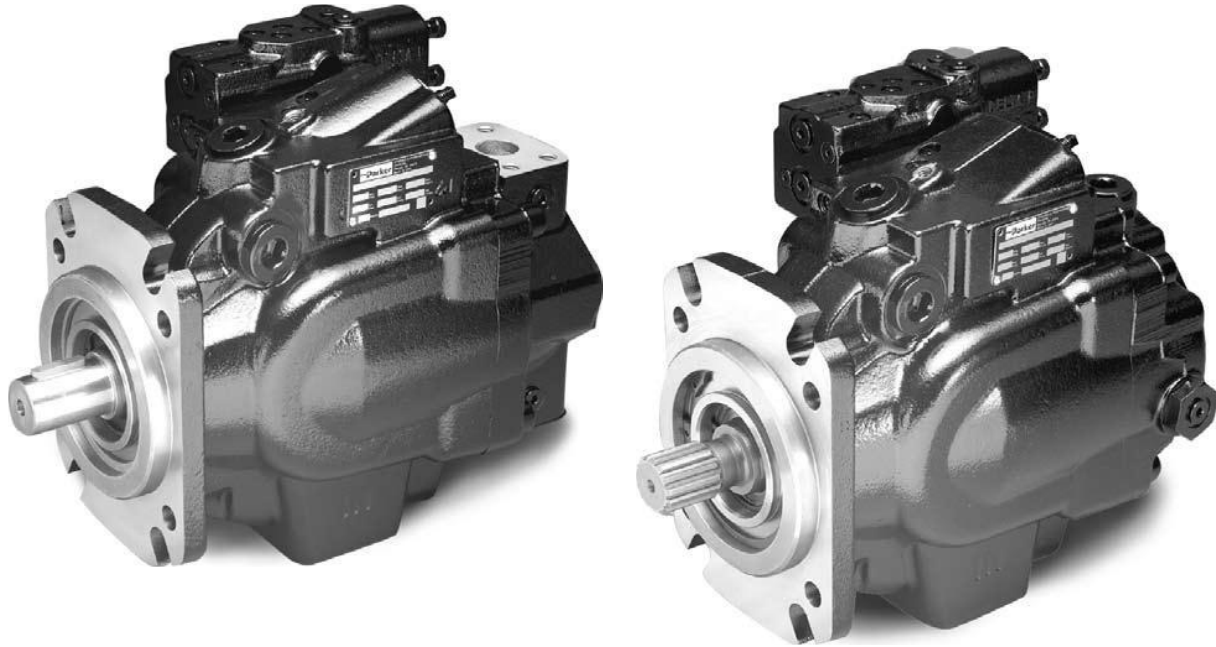
Model	Maximum Rated Torque		TA/TB Adj. Range 20%-60% of Max Torque		TC/TD Adj. Range, 50%-90% of Max Torque	
	Nm	lb-in	Nm	lb-in	Nm	lb-in
P2060	339	3004	68-204	600-1802	170-306	1502-2703
P2075	424	3755	85-254	751-2253	212-382	1877-3379
P2105	594	5257	119-356	1051-3154	297-535	2628-4731
P2145	820	7259	164-492	1451-4355	410-738	3629-6533

The input torque limit is factory set at a percentage of the maximum rated input torque. The percentage needs to be specified in Torque Control Setting (%) box of the ordering code. For example, for a P2075-TC pump with an input torque limit setting required of 300 Nm, divide 300 into 424, which equals 71%, so 71 is specified in Torque Control Setting (%) box.

⁽³⁾ See table at left for information and example.
⁽⁴⁾ For Remote Pressure Compensator, order the “PA” model and remove plug from “X” port.
 [] = Not Available



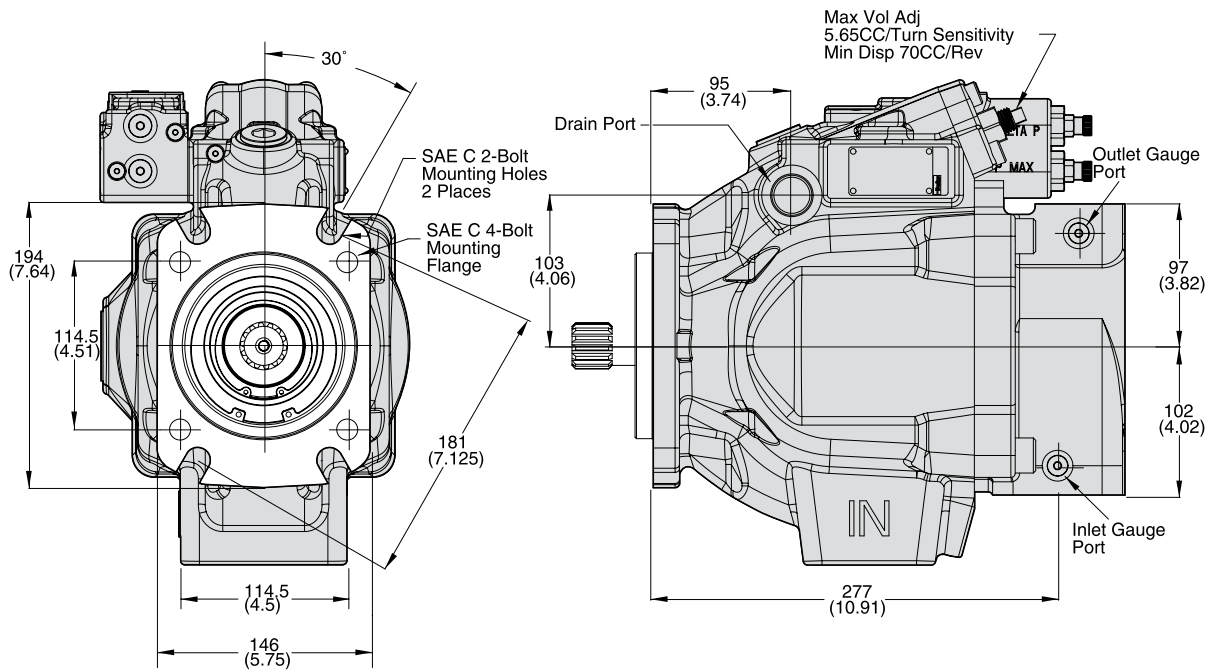
Technical Data



	P2 Series				P3 Series		
Frame size	P2060	P2075	P2105	P2145	P3075	P3105	P3145
Max displacement cm ³ /rev [cu in/rev]	60 3.66	75 4.58	105 6.41	145 8.85	75 4.58	105 6.41	145 8.85
Self-priming speed at 1 bar/14.5 psi abs. inlet pressure [rpm]	2800	2500	2300	2200	3000	2600	2500
Max continuous pressure bar [psi]	320 4600	320 4600	320 4600	320 4600	320 4600	320 4600	320 4600
Peak pressure bar [psi]	370 5365	370 5365	370 5365	370 5365	370 5365	370 5365	370 5365
Minimum Inlet Pressure bar abs at max speed [in Hg vacuum]	.8 5.8	.8 5.8	.8 5.8	.8 5.8	.8 5.8	.8 5.8	.8 5.8
Maximum Inlet Pressure bar [psi]	10 145	10 145	10 145	10 145	1.5 22.7	1.5 22.7	1.5 22.7
Maximum Case Drain Pressure bar continuous psi	.5 7.75	.5 7.75	.5 7.75	.5 7.75	1 14.5	1 14.5	1 14.5
Noise level at full flow, 1800 rpm, and 250 bar (3600 psi) [dbA]	74	76	78	80	76	78	80
Weight with load sense control kg [lbs]	37 81	44 97	63 139	78 172	42 92	62 136	76 167
Mass moment of inertia kg m ² (about axis of shaft)	.0061	.0101	.0168	.0241	.00106	.0177	.0264

Pump Installation - P2-105 Mounting Flange

Port Options	Drain Port	Inlet Gauge Port Outlet Gauge Port
"A" Side - UNC	SAE-12 Straight Thread O-ring Port 1-1/16-12 UN-2B	SAE-4 Straight Thread O-ring Port 7/16-20 UN Thread
"B" Side - Metric	ISO 6149 Straight Thread O-ring Port M27 x 2 Thread	ISO 6149 Straight Thread O-ring Port M12 x 1.5 Thread

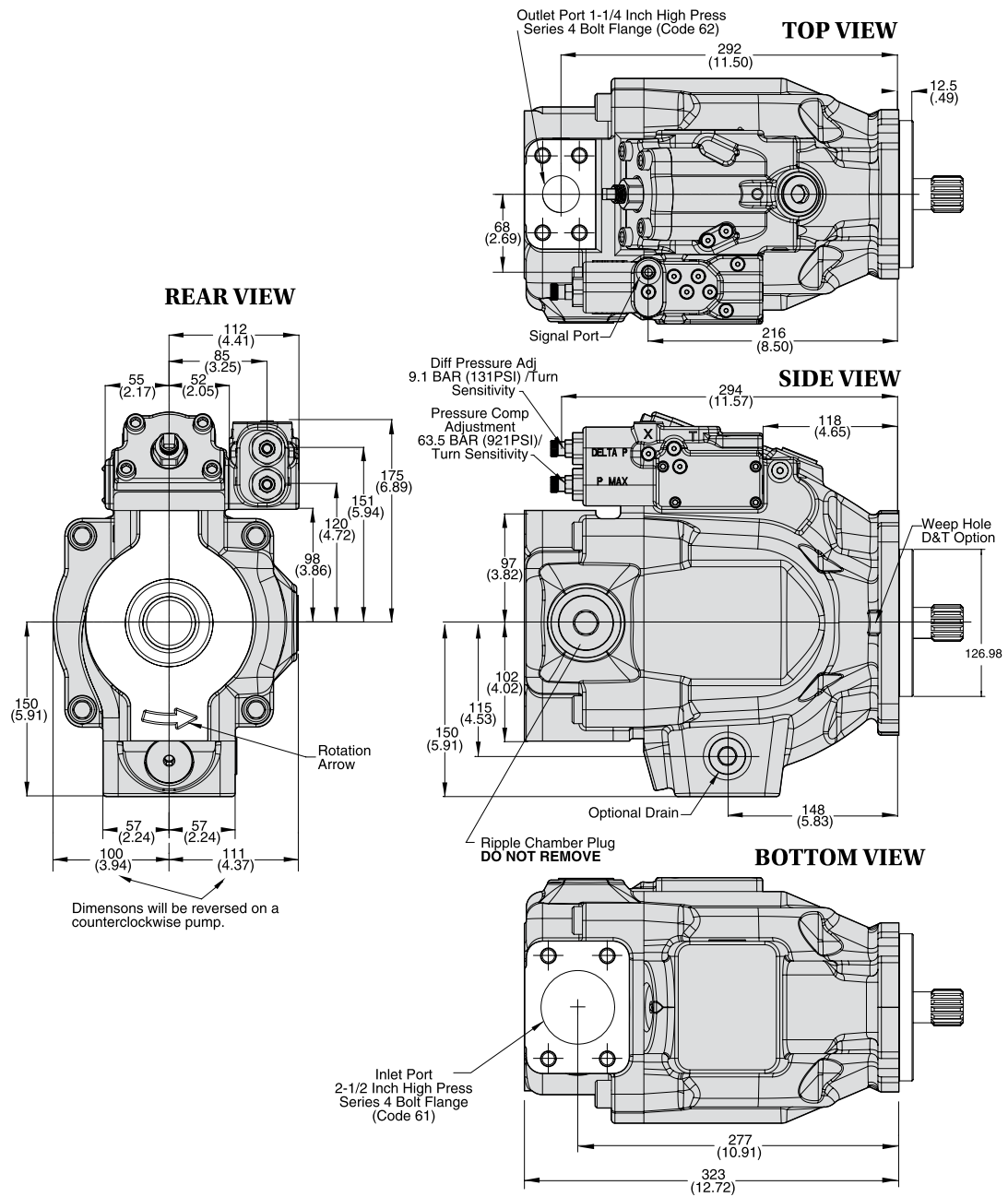


CCW Pump will have inlet and outlet gauge ports reversed.



Pump Installation - P2-105 Side Port

Port Options	Drain Port	Inlet Port	Outlet Port	Inlet Gauge Port Outlet Gauge Port Signal Port
"A" Side - UNC	SAE-12 Straight Thread O-ring Port 1-1/16-12 UN-2B	1/2-13 UN	1/2-13 UN	SAE-4 Straight Thread O-ring Port 7/16-20 UN Thread
"B" Side - Metric	ISO 6149 Straight Thread O-ring Port M27 x 2 Thread	M12 x 1.75	M12 x 1.75	ISO 6149 Straight Thread O-ring Port M12 x 1.5 Thread



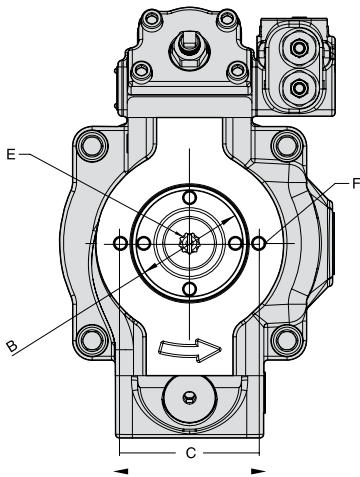
Pump Installation - P2-105 Thru-Shaft Option

Thru-Shaft Option	A	B	C	D	E	F UNC	F Metric	G UNC	G Metric	Pump Weight
A1	323 (12.72)	Ø 82.626/ 82.575 (3.252/ 3.250)	106.3 (4.19)	N/A	SAE-A Spline 9 Tooth 16/32 Pitch	1/2-13 UNC-2B THD	M10 x 1.5 THD	N/A	N/A	61 (134)
B1	356 (14.02)	Ø 101.676/ 101.625 (4.002/ 4.001)	146.1 (5.75)	N/A	SAE-B Spline 13 Tooth 16/32 Pitch	1/2-13 UNC-2B THD	M12 x 1.75 THD	N/A	N/A	64 (140)
B2	356 (14.02)	Ø 101.676/ 101.625 (4.002/ 4.001)	146.1 (5.75)	N/A	SAE-BB Spline 15 Tooth 16/32 Pitch	1/2-13 UNC-2B THD	M12 x 1.75 THD	N/A	N/A	64 (140)
C1	358 (14.09)	Ø 127.075/ 127.025 (5.003/ 5.001)	181 (7.13)	114.5	SAE-C Spline 14 Tooth 12/24 Pitch	1/2-13 UNC-2B THD	M12 x 1.75 THD	5/8-11 UNC-2B THD	M16 x 2 THD	65 (143)
C3	358 (14.09)	Ø 127.075/ 127.025 (5.003/ 5.001)	181 (7.13)	114.5	SAE-C Spline 14 Tooth 12/24 Pitch	1/2-13 UNC-2B THD	M12 x 1.75 THD	5/8-11 UNC-2B THD	M16 x 2 THD	65 (143)

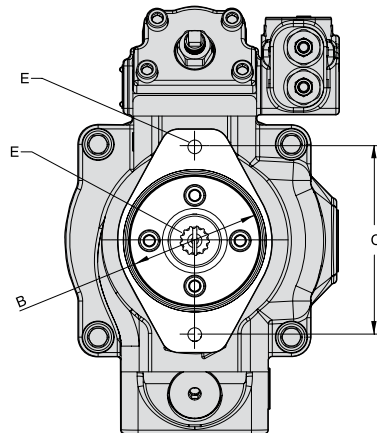
* All shaft Couplings 30 Degrees Involute Spline Flat Root Side Fit

*** Maximum Thru Drive Capability is Limited to 587Nm (5195 lb in)

A1 CONFIGURATION



B1 & B2 CONFIGURATION



C1 & C3 CONFIGURATION

