

# AIR TORQUE

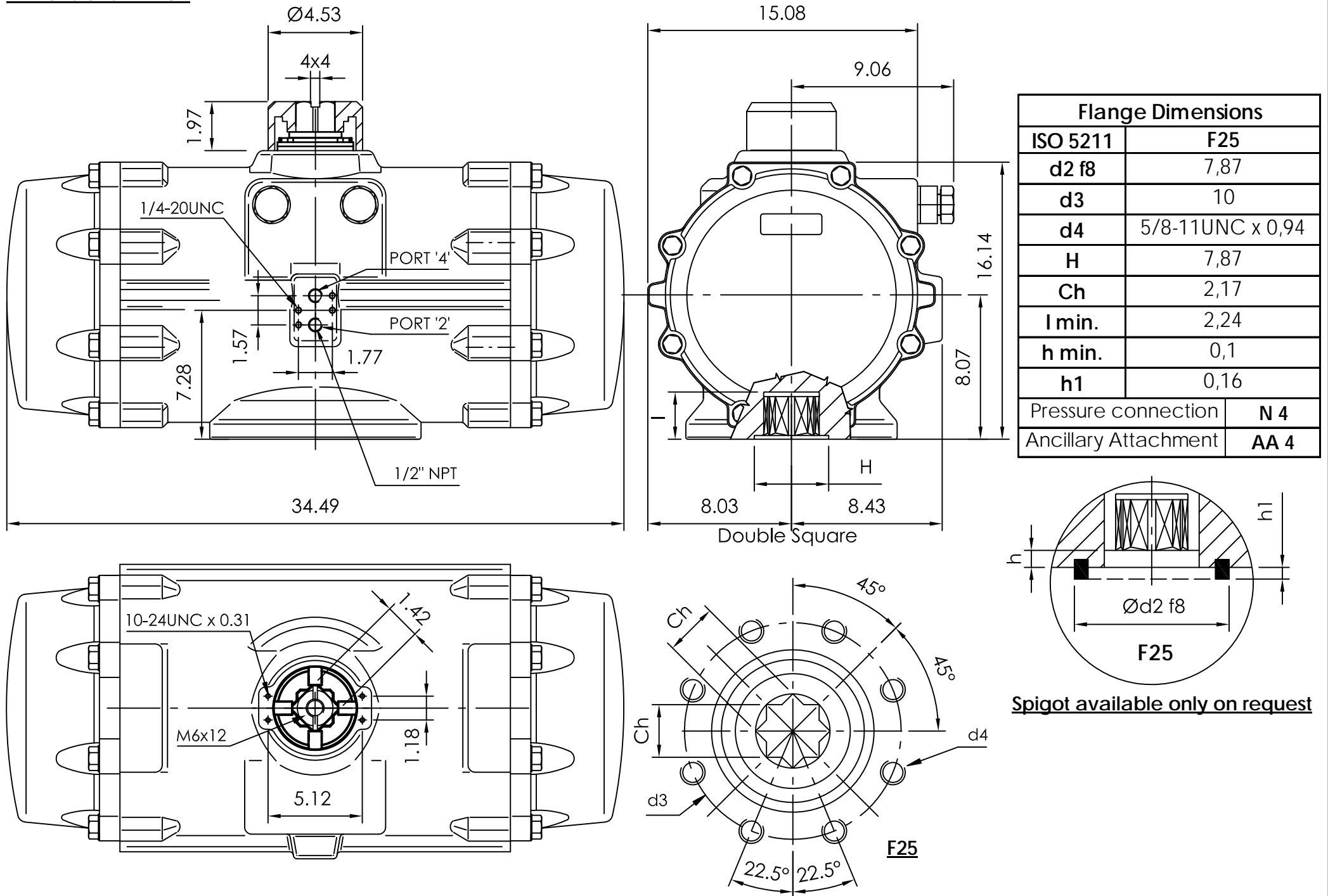
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Technical Data Sheet n° **PT800DU**  
 Issued on: 01/05

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**Model PT800**  
**DA and SR - 90°**

Dimensions in inch



TYPE	OUTPUT TORQUE FOR DOUBLE ACTING IN INCH-LBS								WEIGHT (LBS)							
	40 Psi		50 Psi		60 Psi		70 Psi				80 Psi		90 Psi		100 Psi	
Pressure	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
D	22194.0		27493.0		32991.0		38490.0		43988.0		49487.0		54985.0		63783.0	280.00

TYPE	OUTPUT TORQUE FOR SPRING RETURN IN INCH-LBS														Spring stroke		WEIGHT (LBS)		
	40 Psi		50 Psi		60 Psi		70 Psi		80 Psi		90 Psi		100 Psi		116 Psi			90°	0°
Pressure	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	Start	End	
S 05	13855	11037	19353	16536	24852	22034	30350	27533	35849	33031	41347	38530	46846	44028			10957	8140	317
S 06	12227	8846	17725	14344	23224	19843	28722	25341	34221	30840	39719	36338	45218	41837			13149	9767	325
S 07	10599	6654	16097	12153	21596	17651	27094	23150	32593	28648	38091	34147	43590	39645	52388	48443	15340	11395	333
S 08			14469	9961	19968	15460	25466	20958	30965	26457	36464	31955	41962	37454	50760	46252	17531	13023	341
S 09			12840	7768	18340	13268	23839	18767	29337	24265	34836	29764	40334	35263	49132	44060	19723	14651	348
S 10					16707	11072	22211	16576	27709	22074	33208	27573	38706	33071	47504	41869	21914	16279	356
S 11							20587	14388	26081	19883	31580	25381	37078	30880	45876	39677	24106	17907	364
S 12									24455	17693	29951	23189	35450	28688	44248	37486	26297	19535	371

Max. Pressure	Rotation	Screw stroke Adjustment	Chamber $\phi$ (inch)	Air Volume (in <sup>3</sup> )		Moving Time (Sec.) (A)		Operating Temperature (°F) (B)		
				Opening	Closing	Opening	Closing	STD (standard)	HT (high temperature)	LT (low temperature)
100 Psi	90° ±4° at 0° and 90°	For 1° adj. need 1/4 Turn	12,99	1526	2441	D 6,0 S 7,5	D 7,0 S 8,5	NBR "O" ring - 4 to + 176	FPM "O" ring + 5 to + 300	Silicone "O" ring - 40 to + 176

- Notes:**
- (A) The above indicated moving time of the actuator, are obtained in the following test conditions:  
 (1) Room Temperature, (2) Actuator Stroke 90°, (3) Solenoid Valve with Orifice Of 11 mm and a flow capacity Qn 6000 L/min., (4) Inside pipe diameter 11 mm, (5) Medium clean air, (6) Air supply pressure 5,5 bar (79,75 Psi), (7) Actuator without external resistance load. **Cautions: obviously on the field applications when one or more of the above parameter are different, the moving time will be different.**
- (B) For HT (high temperature) and LT (low temperature) services, a special Lubricant is requested. Please contact Air Torque factory.

**Operating Medium:**  
 The operating medium must be free of dust and oil. The maximum particle size must not exceed 30µm (ISO 8573 Part1, Class5). In order to prevent water condensation and/or solidification – ice, when actuator work below 0°C (32°F) – the operating medium must have a dew point equal to -20°C (-4°F) or, at least 10°C below the ambient temperature (ISO 8573 Part1, Class3).