

High performance and high reliability
Fully compliant with the latest international standards and regulations
More applicable to a wide range of specifications and torque requirements
Compact design is better suited for a variety of industrial applications













Features

Waterproof Protection

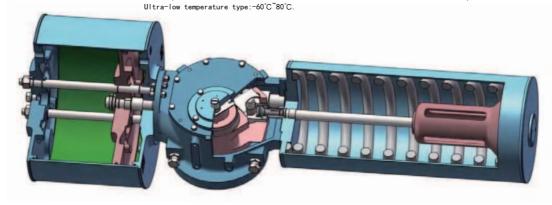
O-Rings are fitted between the body and cover as well as on the modular connections which ensure weatherproof protection.

Application

Pneumatic Operating Press:3~6Barr; Operating Temperauture: Standard:-20~80°C; High temperature:-10°C~150°C; Low temperature:-40°C~80°C;

Corrosion Resistant

VTS actuator is sprayed with multiple layers of protective coating to meet the environmental requirements of all kinds of working conditions. A Teflon coating on the inner wall of the cylinder increases the corrosion resistance and the lubrication performance.



Wear Resistant

Self-lubricating bearings are used on piston rod, guide bar and other moving parts, which reduces resistance and extends the life of all moving parts.

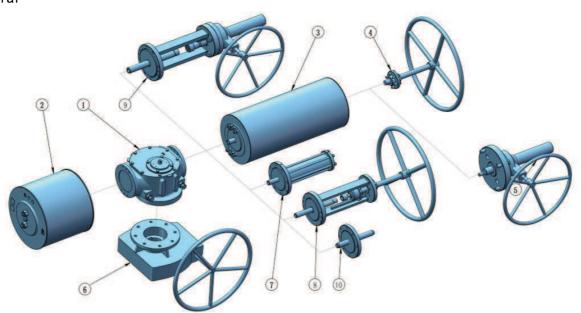
Modular Design

VTS actuator uses a modular design, each body module can have different cylinder modules and spring modules to meet the various torque requiments. Our modular design makes assembly easier, which is conducive to on-site maintenance.

Cylinder With Internal Tie-Rod

The air cylinder is designed with internal tie rods to reduce the size of the cylinder. This design provides the function of supporting and guiding the piston to prevent the eccentric wear of the cylinder as well as to offer the most stable , and long lasting service.

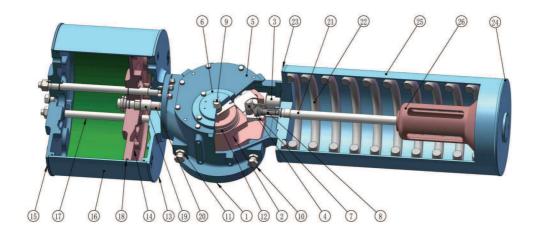
Modular



1.Drive module	3. Spring module	5. Bevel gear manual module	7. Hydraulic manual module	9. Double-acting bevel gear manual module
2.Cylinder module	4. Screw manual module		8.Double-acting screw manual module	10. Limit module



Assembly Drawing



No.	Name	Material
1	Body	Ductile Iron
2	Yoke	Ductile Iron
3	Guide Bar	Alloy Steel
4	Pin	Alloy Steel
5	Body Cover	Ductile Iron
6	Cover	Carbon Steel
7	Guide Block	Ductile Iron
8	Connectors	Alloy Steel
9	Drive Shaft	Stainless Steel

No.	Name	Material
10	Adjust Bolt	Stainless Steel
11	Nut	Stainless Steel
12	Yoke Bearing	DU Bearing
13	Cylinder Cover	Ductile Iron
14	Piston	Ductile Iron
15	Cylinder Cover	Ductile Iron
16	Cylinder	Carbon Steel
17	Cylinder Tie Rod	Alloy Steel
18	Sealing Ring	NBR

No.	Name	Material
19	Piston Rod	Alloy Steel
20	Piston Rod Bearing	DU Bearing
21	Tension Rod	Alloy Steel
22	Spring	Alloy Steel
23	Spring Cover	Carbon Steel
24	Spring Cover	Carbon Steel
25	Spring Cylinder	Carbon Steel
26	Spring Seat	Ductile Iron

Cylinder Volume

Mode I				C	ylind	er Eft	ectiv	e Vol	ume (L)					
Model	200	250	300	350	400	450	500	600	700	700 D	800	800 D	900	1000
VTS1	6. 8	10. 6	15. 4	18. 2										
VTS2		10. 6	15. 4	18. 2	21. 3	28. 6								
VTS3			18. 4	21. 7	27. 5	37	43							
VTS4				26. 6	33. 7	45. 3	53	76						
VTS5							69	100	145		189			
VTS6								124	180	360	234		296	
VTS7									214	428	275	550	353	430
VTS8									280	560	360	720	462	564



Torque Sheet



Double Acting

Mod	اما			0ut	put Torqu	e (Nm)			
INIOC	101	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
VT04 000	Start/End	1066	1244	1421	1777	1954	2132	2472	2825
VTS1-200	Run	563	656	750	938	1031	1125	1305	1491
VT04 050	Start/End	1701	1985	2269	2836	3119	3403		
VTS1-250	Run	898	1048	1197	1497	1646	1796		
VT04 000	Start/End	2459	2869	3278					
VTS1-300	Run	1298	1514	1730					
VT04 050	Start/End	2948	3440						
VTS1-350	Run	1556	1815						
	Start/End	2098	2448	2797	3497	3847	4197	4896	5596
VTS2-250	Run	1107	1292	1477	1845	2030	2216	2584	2953
\/T00 000	Start/End	3033	3538	4043	5054	5560	6065		
VTS2-300	Run	1600	1867	2134	2667	2934	3201		
	Start/End	3636	4242	4848	6060	6666			
VTS2-350	Run	1919	2239	2559	3198	3518			
	Start/End	4799	5598	6398					
VTS2-400	Run	2533	2955	3377					
	Start/End	3647	4255	4863	6079	6687	7294	8510	9726
VTS3-300	Run	1925	2246	2567	3208	3529	3850	4491	5133
	Start/End	4373	5102	5831	7289	8017	8746	10204	11662
VTS3-350	Run	2308	2693	3077	3847	4231	4616	5385	6155
	Start/End	5771	6733	7695	9619	10581	11543		
VTS3-400	Run	3046	3554	4061	5077	5584	6092		
	Start/End	7345	8569	9794	12242				
VTS3-450	Run	3877	4523	5169	6461				
	Start/End	9128	10650	12171					
VTS3-500	Run	4818	5621	6424					
VT0.4.055	Start/End	5307	6191	7076	8845	9729	10613	12382	14151
VTS4-350	Run	2801	3268	3734	4668	5135	5602	6535	7469
VT0.4 :00	Start/End	7003	8171	9338	11672	12840	14007	16341	18676
VTS4-400	Run	3696	4312	4928	6160	6776	7392	8625	9857
	Start/End	8913	10399	11884	14855	16341	17826	20798	
VTS4-450	Run	4704	5488	6272	7840	8624	9408	10976	
Mod	de l	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar

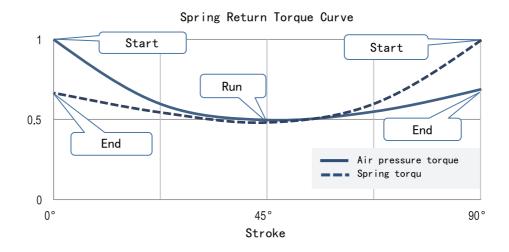


Double Acting

Mod	de l								
	401	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
VTS4-500	Start/End	11077	12923	14769	18462	20308	22154		
V134 300	Run	5846	6821	7795	9744	10718	11692		
VTC4_400	Start/End	16031	18703	21375					
VTS4-600	Run	8461	9871	11281					
VT05 500	Start/End	14359	16752	19146	23932	26325	28718	33505	38291
VTS5-500	Run	7578	8842	10105	12631	13894	15157	17683	20209
VT05 (00	Start/End	20781	24245	27708	34635	38099	41563		
VTS5-600	Run	10968	12796	14624	18280	20108	21936		
VT05 700	Start/End	29889	34870	39852					
VTS5-700	Run	15775	18404	21033					
WT05 000	Start/End	38750	45208						
VTS5-800	Run	20451	23860						
	Start/End	25383	29613	33844	42305	46535	50766	59227	67688
VTS6-600	Run	13397	15629	17862	22328	24560	26793	31259	3572
	Start/End	36507	42591	48676	60845	66929	73014		
VTS6-700	Run	19267	22479	25690	32112	35324	38535		
	Start/End	47330	55218	63107	78884				
VTS6-800	Run	24980	29143	33306	41633				
	Start/End	60792	70924	81057					
VTS6-900	Run	32085	37432	42780					
	Start/End	43339	50562	57785	72231	79454	86677	101123	11556
VTS7-700	Run	22873	26685	30497	38122	41934	45746	53371	6099
	Start/End	56187	65552	74916	93645	103010	112374		
VTS7-800	Run	29654	34597	39539	49424	54366	59309		
	Start/End	72169	84197	96225	120281	132309	144338		
VTS7-900	Run	38089	44437	50785	63482	6989	76178		
	Start/End	86677	101123	115569	130016	144462	70170		
VTS7-700D	Run	45746	53371	60995	68619	76244			
	Start/End	112374	131104	149833					
VTS7-800D	Run	59309	69194	79078					
	Start/End	57116	66635	76155	95194	104713	114232	133271	15231
VTS8-700	Run	30145	35169	40193	50241	55265	60289	70337	80386
	Start/End	74050	86391	98733	123416	135758	148099	172782	1974
VTS8-800	Run	39082	45595	52109	65136	71650	78163	91191	1042
	Start/End	95112	110964	126816	158520	174371	190223	221927	2536
VTS8-900	Run	50198	58564	66930	83663	92029	100396	117128	1338
	Start/End	115424	134662	153899	192374	211611	230848	269323	1000
VTS8-1000	Run	60918	71071	81224	101531	111684	121837	142143	
		114232	133271	152310	190387	209426	228464		
VTS8-700D	Start/End	60289	70337	80386	100482	110530	120578	266542 140675	
	Run	148099	172782	197465	246832		120370	1-100/3	
VTS8-800D	Start/End	78163	91191	197465	130272	271515 143300			
	Run	190223	221927	253631	130272	143300			
VTS8-900D	Start/End	190223	117128	133861					
	Run	100390	11/120	133001		1			



Torque Sheet



Mode I	Spring	Torque			0u	tput To	rque (Nm)			
Wodel	(N	m)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
	Start	718		558	735	1088	1264	1441	1790	2143
VTS1-200-SR4	Run	353		266	359	546	639	732	916	1102
	End	619		450	627	980	1156	1333	1683	2035
	Start	1313					699	875	1228	1580
VTS1-200-SR3	Run	645					317	410	596	782
	End	1132					501	678	1030	1382
	Start	1313		746	1030	1597	1880	2164	2731	3298
VTS1-250-SR3	Run	645		341	491	790	940	1090	1389	1688
	End	1132		548	832	1399	1682	1966	2533	3100
	Start	1313	1220	1630	2039	2859	3269			
VTS1-300-SR3	Run	645	592	808	1024	1457	1673			
	End	1132	1022	1432	1842	2661	3071			
	Start	1313	1709	2201	2692					
VTS1-350-SR3	Run	645	850	1109	1369					
	End	1132	1511	2003	2494					
	Start	1529						705	1057	1410
VTS1-200-SR2	Run	743						303	489	674
	End	1288						441	794	1146
	Start	1529		576	859	1426	1710	1993	2561	3128
VTS1-250-SR2	Run	743		235	384	683	833	982	1282	1581
	End	1288		312	595	1163	1446	1730	2297	2864
	Start	1529	1049	1459	1869	2689	3098			
VTS1-300-SR2	Run	743	484	701	917	1349	1566			
	End	1288	786	1196	1605	2425	2835			



	Start	1529	1539	2030	2522					
VTS1-350-SR2	Run	743	743	1002	1261					
	End	1288	1275	1766	2258					
	Start	1743							864	1216
VTS1-200-SR1	Run	847							376	562
	End	1465							560	912
	Start	1743			665	1232	1516	1800	2367	2934
VTS1-250-SR1	Run	847			271	570	720	870	1169	1468
	End	1465			361	928	1212	1496	2063	2630
	Start	1743	856	1265	1675	2495	2905	3314		
VTS1-300-SR1	Run	847	371	588	804	1236	1453	1669		
	End	1465	552	961	1371	2191	2601	3010		
	Start	1743	1345	1836	2328	3310				
VTS1-350-SR1	Run	847	630	889	1148	1667				
	End	1465	1041	1532	2024	3006				
	Start	2537				1370	1720	2070	2769	3469
VTS2-250-SR3	Run	1182				552	737	921	1290	1659
	End	1944				722	1071	1421	2120	2820
Model	Spring To	orque(Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar



Model		Torque			0	utput T	orque(Nm	1)		
IIIOGO I	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Ba
	Start	2537		1411	1916	2927	3432	3938	4949	5960
/TS2-300-SR3	Run	1182		574	840	1374	1640	1907	2441	2974
	End	1944		762	1268	2278	2784	3289	4300	531
	Start	2537	1509	2115	2721	3933	4539	5145	6357	
VTS2-350-SR3	Run	1182	625	945	1265	1905	2224	2544	3184	
	End	1944	860	1466	2072	3284	3890	4496	5708	
	Start	2537	2671	3471	4271	5871				
/TS2-400-SR3	Run	1182	1239	1661	2083	2927				
	End	1944	2023	2822	3622	5222				
	Start	2851					1393	1742	2442	314
/TS2-250-SR2	Run	1344					559	744	1113	148:
	End	2243					728	1077	1777	247
	Start	2851			1589	2600	3105	3611	4621	563
/TS2-300-SR2	Run	1344			663	1197	1463	1730	2264	279
	End	2243			924	1935	2440	2946	3956	496
	Start	2851		1787	2394	3606	4212	4818	6030	
VTS2-350-SR2	Run	1344		768	1088	1727	2047	2367	3007	
	End	2243		1123	1729	2941	3547	4153	5365	
	Start	2851	2344	3144	3944	5543	6343			
/TS2-400-SR2	Run	1344	1062	1475	1906	2750	3172			
	End	2243	1679	2479	3279	4878	5678			
	Start	3614							1856	255
/TS2-250-SR1	Run	1687							738	110
	End	2778							942	164
	Start	3614				2014	2519	3025	4036	504
/TS2-300-SR1	Run	1687				822	1088	1355	1889	242
	End	2778				1100	1605	2111	3121	413
	Start	3614			1808	3020	3626	4232	5444	
VTS2-350-SR1	Run	1687			713	1353	1673	1992	2632	
	End	2778			894	2106	2712	3318	4530	
	Start	3614	1759	2559	3358	4958	5758			
VTS2-400-SR1	Run	1687	687	1109	1531	2375	2797			
	End	2778	844	1644	2444	4043	4843			
	Start	3614	3067	4085	5103					
VTS2-450-SR1	Run	1687	1378	1915	2452					
	End	2778	2153	3171	4188					
	Start	4194				2561	3169	3777	4992	620
/TS3-300-SR3	Run	1955				1069	1390	1710	2352	299
	End	3215				1489	2097	2705	3921	513
	Start	4194			2313	3771	4500	5228	6686	814
/TS3-350-SR3	Run	1955			938	1707	2092	2477	3246	401
	End	3215			1242	2699	3428	4157	5615	707
	Start	4194	2253	3216	4177	6101	7063	8025	9948	1187
VTS3-400-SR3	Run	1955	907	1414	1922	2937	3445	3953	4968	598
	End	3215	1182	2144	3106	5030	5991	6953	8877	1080
	Start	4194	3827	5051	6275	8724	9948	11172		
VTS3-450-SR3	Run	1955	1737	2383	3029	4322	4968	5614		
	End	3215	2756	3980	5204	7653	8877	10101		



Mode I		Torque			0	utput T	orque(Nm	1)		
Wodel	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
	Start	4194	5610	7132	8653	11696				
VTS3-500-SR3	Run	1955	2678	3481	4284	5890				
	End	3215	4539	6061	7582	10625				
	Start	4795					2665	3273	4488	5704
VTS3-300-SR2	Run	2235					1083	1404	2046	2687
	End	3675					1440	2047	3263	4479
	Start	4795				3267	3996	4725	6182	7640
VTS3-350-SR2	Run	2235				1401	1785	2170	2940	3709
	End	3675				2042	2770	3499	4957	6415
	Start	4795		2712	3673	5597	6559	7521	9445	11368
VTS3-400-SR2	Run	2235		1108	1615	2631	3138	3646	4661	5677
	End	3675		1486	2448	4372	5334	6296	8219	10143
	Start	4795	3323	4548	5772	8220	9444			
VTS3-450-SR2	Run	2235	1431	2077	2723	4015	4661			
	End	3675	2098	3322	4547	6995	8219			
	Start	4795	5107	6628	8149	11192				
VTS3-500-SR2	Run	2235	2372	3175	3978	5584				
	End	3675	3881	5403	6924	9967				
	Start	5419		0.00				2749	3965	5191
VTS3-300-SR2A	Run	2526						1085	1727	2369
THOS GOO GIVEN	End	4154						1364	2580	3796
	Start	5419				2743	3472	4201	5659	7117
VTS3-350-SR2A	Run	2526				1082	1467	1852	2621	3390
V100 000 011271	End	4154				1358	2087	2816	4274	5731
	Start	5419			3150	5074	6036	6997	8921	10845
VTS3-400-SR2A	Run	2526			1297	2312	2820	3328	4343	5358
V100 400 3NZA	End	4154			1765	3689	4650	5612	7536	9460
	Start	5419		4024	5248	7697	8921	10145	12594	7400
VTS3-450-SR2A	Run	2526		1758	2404	3697	4343	4989	6281	
1100 400 GKZK	End	4154		2639	3863	6312	7536	8760	11208	
	Start	5419	4583	6105	7626	10669	7550	0700	11200	
VTS3-500-SR2A	Run	2526	2053	2856	3659	5265				
V133 300 3NZA	End	4154	3198	4719	6241	9284				
	Start	6219	3170	4/17	0241	7204			3294	4510
VTS3-300-SR1	Run	2899							1319	1961
¥100 000 0111	End	4767							1704	2920
	Start	6219					2801	3530	4988	6445
VTS3-350-SR1	Run	2899					1059	1444	2213	2982
V100 000 0K1	End	4767					1212	1941	3398	4856
		6219			2470	4400	5364	6326	8250	10174
VTC2 400 CD4	Start	2899			2479	4402	2412	2919	3935	4950
VTS3-400-SR1	Run				889	1904	+		6661	
	End	4767		2050	889	2813	3775	4737	-	8584
VTC2 450 CD4	Start	6219		3353	4577	7026	8250	9474	11922	
VTS3-450-SR1	Run	2899		1350	1996	3289	3935	4581	5873	
	End	4767	2010	1764	2988	5436	6660	7885	10333	
VTS3-500-SR1	Start	6219	3912	5433	6955	9997	11519			
110-000 COLL	Run	2899	1645	2448	3251	4857	5660			
	End	4767	2323	3844	5365	8408	9930	4400	/000	70-
VTC4 250 CD4	Start	7842						4433	6202	7971
VTS4-350-SR4	Run	3560				-		1706	2640	3573
	End	5648					,	2032	3801	5570
	Start	7842				5492	6659	7826	10161	12495
VTS4-400-SR4	Run	3560				2265	2881	3497	4729	5961
	End	5648				3091	4258	5425	7760	10094
	Start	7842			5704	8675	10161	11646	14617	17588
VTS4-450-SR4	Run	3560			2377	3945	4029	5513	7081	8649
	End	5648			3303	6274	7759	9245	12216	15187
Mode I	Spring To	orque (Nm)	3 Bar	3. 5 Bar	4 Bar	5 Bar	5. 5 Bar	6 Bar	7 Bar	8 Bar



Model		Torque			0	utput To	orque(Nm)		
Model	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
	Start	7842	4897	6742	8589	12281	14128	15974	19666	
VTS4-500-SR4	Run	3560	1951	2925	3899	5848	6823	7797	9746	
	End	5648	2495	4341	6188	9880	11726	13572	17265	
	Start	7842	9851	12523	15195	20539	23210			
VTS4-600-SR4	Run	3560	4565	5976	7386	10206	11616			
	End	5648	7450	10122	12793	18137	20809			
	Start	9336							5156	6925
VTS4-350-SR3	Run	4206							1932	2866
	End	6603							2167	3935
	Start	9336					5625	6781	9115	11450
VTS4-400-SR3	Run	4206					2178	2790	4022	5254
	End	6603					2629	3791	6125	8460
	Start	9336				7629	9115	10600	13572	16543
VTS4-450-SR3	Run	4206				3238	4022	4806	6374	7942
	End	6603				4640	6125	7611	10582	13553
	Start	9336		5698	7543	11236	13082	14928	18620	22313
VTS4-500-SR3	Run	4206		2218	3192	5141	6115	7090	9038	1098
	End	6603		2708	4554	8246	10092	11938	15631	1932
	Start	9336	8805	11477	14149	19493	22165			
VTS4-600-SR3	Run	4206	3858	5268	6679	9499	10909			
	End	6603	5815	8487	11159	16503	19175			
	Start	11174		0.0.		1,0000			7714	10048
VTS4-400-SR2	Run	5029							3121	4353
	End	7884							4114	6448
	Start	11174				6228	7714	9199	12170	1514
VTS4-450-SR2	Run	5029				2337	3121	3905	5473	7041
	End	7884				2628	4114	5599	8570	1154
	Start	11174			6142	9834	11681	13527	17219	2091
VTS4-500-SR2	Run	5029			2292	4240	5215	6189	8138	1008
	End	7884			2542	6234	8081	9927	13619	1731
	Start	11174	7404	10076	12748	18091	20763	7721	10017	17017
VTS4-600-SR2	Run	5029	2958	4368	5778	8598	10008			
	End	7884	3804	6476	9148	14492	17163			
	Start	12586	3004	0470	7140	14472	17100		6286	8620
VTS4-400-SR1	Run	5746							2337	3569
	End	9189							2568	4903
	Start	12586					6286	7771	10742	13713
VTS4-450-SR1	Run	5746					2336	3120	4689	6257
	End	9189					2568	4054	7025	9996
	Start	12586				8406	10253	12099	15791	1948
VTS4-500-SR1	Run	5746				3456	4430	5404	7353	9302
	End	9189				4689	6535	8381	12074	1576
	Start	12586		8648	11320	16663	19335	22007	12014	13700
VTS4-600-SR1	Run	5746		3583	4993	7814	9224	10634		
	End	9189		4930	7602	12946	15618	18290		
	Start	17538		4730	7002	12740	14179	16572	21250	2614
VTS5-500-SR4	Run						5624		21359	1194
500 514	End	7557						6887	9413	
	Start	11100		12000	15540	22400	7134	9527	14313	1910
VTS5-600-SR4	Run	17538		12099	15562	22489	25953	29416	36344	4327
¥100 000 3N4	End	7557		4526	6354	10010	11838	13666	17322	20978
	Erid	11100		5053	8517	15444	18908	22371	29298	3622



Model		Torque	Output Torque (Nm)										
Woder	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bai			
	Start	17538	17742	22723	27705	37668	42650						
VTS5-700-SR4	Run	7557	7505	10134	12763	18021	20650						
	End	11100	10697	15769	20660	30623	35604						
	Start	17538	26604	33062	39520								
VTS5-800-SR4	Run	7557	12182	15590	18999								
	End	11100	19558	26017	32475								
	Start	21048						14357	19144	23930			
VTS5-500-SR3	Run	9017						5289	7815	10342			
	End	13124						5686	10473	15259			
	Start	21048			13347	20274	23738	27202	34129	4105			
VTS5-600-SR3	Run	9017			4756	8412	10240	12068	15724	19380			
	End	13124			4676	11603	15067	18530	25458	3238			
	Start	21048	15528	20509	25491	35453	40435	10000	20400	02000			
VTS5-700-SR3	Run	9017	5907	8536	11165	16423	19052						
7100 700 0110	End	13124	6857	11838	16819	26782	31764						
	Start		24389	30847	37305	20/02	31704						
VTS5-800-SR3	Run	21048 9017	10584	13992	17401								
V100 000 010	End			 									
	Start	13124	15718	22176	28634				1//41	24.42			
VT95_500_9D2	Run	25892							16641	21427			
VTS5-500-SR2	End	10899							5756	8282			
		15411				47770	04005	0.4700	5172	9959			
VTS5-600-SR2	Start	25892				17772	21235	24699	31626	38553			
	Run	10899				6353	8181	10009	13665	17321			
	End	15411				6303	9766	13230	20157	27084			
VTS5-700-SR2	Start	25892		18006	22988	32951	37932	42913					
	Run	10899		6477	9106	14364	16993	19622					
	End	15411		6538	11519	21482	26463	31445					
	Start	25892	21886	28344	34803								
VTS5-800-SR2	Run	10899	8524	11933	15342								
	End	15411	10417	16876	23334								
	Start	28823								18410			
VTS5-500-SR1	Run	12400								6640			
	End	18168								6751			
	Start	28823					18218	21681	28609	35536			
VTS5-600-SR1	Run	12400					6538	8366	12022	15678			
	End	18168					6559	10022	16949	23877			
	Start	28823			19970	29933	34915	39896					
VTS5-700-SR1	Run	12400			7463	12721	15350	17980					
	End	18168			8311	18274	23256	28237					
	Start	28823	18869	25327	31785	44702							
VTS5-800-SR1	Run	12400	6882	10290	13699	20516							
	End	18168	7210	13668	20126	33043							
	Start	34600						27413	35874	4433			
VTS6-600-SR4	Run	14762						10639	15105	19570			
	End	21341						12904	21365	2982			
	Start	34600			25323	37492	43577	49661	61830	73999			
VTS6-700-SR4	Run	14762			9536	15959	19170	22381	28804	3522			
	End	21341			10814	22983	29067	35152	47321	5948			
	Start	34600	23978	31866	39754	55531	63419	71308					
VTS6-800-SR4	Run	14762	8826	12989	17153	25479	29642	33806					
	End	21341	9468	17356	25245	41021	48910	56798					
Model		orque (Nm)	3 Bar	3. 5 Bar	4 Bar	5 Bar	5. 5 Bar	6 Bar	7 Bar	8 Bar			



Mode I	Spring Torque		Output Torque (Nm)										
Moder	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar			
	Start	34600	37440	47572	57704	77968							
VTS6-900-SR4	Run	14762	15931	21278	26626	37321							
	End	21341	22930	33063	43194	63459							
	Start	41067							31802	40263			
VTS6-600-SR3	Run	17451							12163	16628			
	End	25062							14288	22749			
	Start	41067				33420	39504	45589	57758	69927			
VTS6-700-SR3	Run	17451				13016	16228	19439	25861	32284			
	End	25062				15906	21990	28075	40244	52413			
	Start	41067		27793	35682	51459	59347	67236					
VTS6-800-SR3	Run	17451		10047	14210	22537	26700	30864					
	End	25062		10279	18168	33945	41833	49721					
	Start	41067	33368	43500	53632	73896							
VTS6-900-SR3	Run	17451	12989	18336	23684	34379							
	End	25062	15853	25986	36118	56382							
	Start	49840						40065	52234	64403			
VTS6-700-SR2	Run	21098						15448	21871	28293			
	End	30110						18475	30644	42813			
	Start	49840				45935	53823	61712	77488				
VTS6-800-SR2	Run	21098				18546	22709	26873	35199				
	End	30110				24345	32234	40122	55899				
	Start	49840		37976	48108	68372	78504						
VTS6-900-SR2	Run	21098		14345	19693	30388	35735						
	End	30110		16386	26518	46782	56914						
	Start	49840	40065	52234	64403								
VTS6-700D-SR2	Run	21098	15448	21871	28293								
	End	30110	18475	30644	42813								
	Start	56307						35993	48162	60330			
VTS6-700-SR1	Run	23787						12506	18928	25351			
	End	33832						11398	23567	35736			
	Start	56307				41863	49751	57639	73416				
VTS6-800-SR1	Run	23787				15604	19767	23931	32257				
	End	33832				17268	25156	33045	48822				
	Start	56307			44036	64300	74432						
VTS6-900-SR1	Run	23787			16751	27446	32793						
	End	33832			19441	39705	49837						
	Start	56307	35993	48162	60330								
VTS6-700D-SR1	Run	23787	12506	18928	25351								
	End	33832	11398	23567	35736								
	Start	57016					34894	42117	56563	71009			
VTS7-700-SR3	Run	25792					13711	17523	25147	32772			
	End	40721					17063	24286	38732	53178			
Mode I	Spring T	orque(Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar			



Model	Spring Torque		Output Torque (Nm)										
Model	(N	lm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar			
	Start	57016			30356	49085	58450	67814	86543	105272			
VTS7-800-SR3	Run	25792			11316	21201	26143	31086	40970	50855			
	End	40721			12525	31254	40619	49984	68713	87442			
	Start	57016		39637	51665	75721	87749	99777	123834				
VTS7-900-SR3	Run	25792		16215	22562	35259	41607	47955	60651				
	End	40721		21806	33834	57890	69918	81947	106003				
	Start	67109						34306	48752	97462			
VTS7-700-SR2	Run	30339						12547	20172	45879			
	End	47859						13242	27688	76397			
	Start	67109				41274	50638	60003	78732				
VTS7-800-SR2	Run	30339				16225	21167	26110	35995				
	End	47859				20210	29574	38939	57668				
	Start	67109		31826	43854	67910	79938	91966	116023				
VTS7-900-SR2	Run	30339		11238	17587	30283	36631	42979	55676				
	End	47859		10761	22790	46846	58874	70902	94959				
VTS7-700D-SR2	Start	67109	33450	47317	61184	88918	102785	116652					
	Run	30339	12373	19692	27011	41648	48967	56286					
	End	47859	13439	27306	41173	68907	82774	96641					
	Start	67109	60003	78732	97462								
VTS7-800D-SR2	Run	30339	26110	35995	45879								
	End	47859	38939	57668	76397								
	Start	83319						50656	69385	88114			
VTS7-800-SR1	Run	36871						18962	28847	38732			
	End	56401						21200	39929	58658			
	Start	83319				58563	70591	82619	106676				
VTS7-900-SR1	Run	36871				23135	29483	35832	48528				
	End	56401				29107	41090	53163	77220				
	Start	83319			53956	82566	96871	11176					
VTS7-700D-SR1	Run	36871			20859	35959	43509	51058					
	End	56401			25089	53699	68004	82309					
	Start	83319	50656	69385	88114	125573							
VTS7-800D-SR1	Run	36871	18962	28847	38732	58510							
	End	56401	21200	39929	58658	96117							
	Start	83319	68845	92949	117054								
VTS7-900D-SR1	Run	36871	26595	39138	52039								
	End	56401	31939	56044	80148								
Mode I	Spring T	orque (Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar			



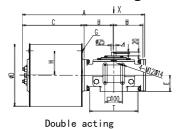
Model	Spring 1	Torque (Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5. 5 Bar	6 Bar	7 Bar	8 Bar
	Start	102979					68969	83444	97919	126870
VTS7-700D-SR1A	Run	45450					26661	34301	41941	57220
	End	69253					32064	46539	61014	89964
	Start	102979		55584	74351	111884	149417			
VTS7-800D-SR1A	Run	45450		19597	29502	49311	69120			
	End	69253		18679	37446	74979	112512			
	Start	102979	68845	92949	117054	141159	165264			
VTS7-900D-SR1A	Run	45450	26596	39318	52039	64760	77481			
	End	69253	31939	56044	80148	104252	128356			
	Start	113716						74375	99058	123741
VTS8-800-SR4	Run	47787						25871	38898	51926
	End	67372						23663	48346	73029
	Start	113716					100647	116499	148203	179907
VTS8-900-SR4	Run	47787					39737	48103	64836	81569
	End	67372					49935	65787	97491	129195
	Start	113716			80175	118650	137887	157124	195599	234074
VTS8-1000-SR4	Run	47787			28932	49238	59391	69544	89851	110157
	End	67372			29463	67938	87175	106412	144887	183362
	Start	113716			78586	116663	135702	154740	192818	230895
VTS8-700D-SR4	Run	47787			28093	48190	58238	68286	88383	108479
	End	67372			27873	65951	84990	104028	142106	180183
	Start	113716	74375	99058	123741	173108	197791	222474	271841	
VTS8-800D-SR4	Run	47787	25871	38898	51926	77980	91007	104035	130089	
	End	67372	23663	48346	73029	122396	147079	171762	221128	
	Start	113716	116499	148203	179907	243315	275019			
VTS8-900D-SR4	Run	47787	48103	64836	81569	115034	131767			
	End	67372	65787	97491	129195	192603	224307			
	Start	113716	157124	195599	234074					
VTS8-1000D-SR4	Run	47787	69544	89851	110157					
	End	67372	106412	144887	183362					
	Start	141887								109996
VTS8-800-SR3	Run	58536								40163
	End	79933								42202
	Start	141887						102754	134458	166162
VTS8-900-SR3	Run	58536						36341	53074	69807
	End	79933						34960	66664	98368
	Start	141887				104904	124142	143379	181854	220329
VTS8-1000-SR3	Run	58536				37476	47629	57782	78088	98394
	End	79933				37110	56348	75585	114060	152535
Mode I	Spring To	orque(Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5. 5 Bar	6 Bar	7 Bar	8 Bar

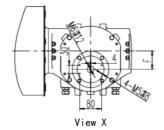


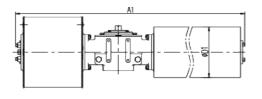
Model	Sprin	g Torque								
Mode I		(Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5.5 Bar	6 Bar	7 Bar	8 Bar
	Start	141887				102918	121957	140995	179073	217150
VTS8-700D-SR3	Run	58536				36428	46476	56524	76620	96717
	End	79933				35124	54162	73201	111279	149356
	Start	141887			109996	159363	184046	208729	258095	
VTS8-800D-SR3	Run	58536			40163	66218	79245	92272	118327	
	End	79933			42202	91568	116252	140935	190301	
	Start	141887		134458	166162	229570	261274			
VTS8-900D-SR3	Run	58536		53074	69807	103272	120004			
	End	79933		66664	98368	161776	193480			
	Start	141887	143379	181854	220329					
VTS8-1000D-SR3	Run	58536	57782	78088	98394					
	End	79933	75585	114060	152535					
	Start	155634	,,,,,,,	111000						
VTS8-900-SR2	Run	66177							117814	149518
V130 700 3K2	End	95144							44712	61445
	Start	155634							51621	83325
VTS8-1000-SR2	Run	66177					107498	126735	165210	203685
V136-1000-3K2	End						39267	49420		
	Start	95144					41305		69727	90033
VT00 700D 0D0	Run	155634					105312	60542	99017	137492
VTS8-700D-SR2	End	66177					38114	124351	162429	200506
		95144				1.40740	-	48162	68259	88355
	Start	155634				142718	39120	58158	96236	134313
VTS8-800D-SR2	Run End	66177				57856	167402	192085	241451	
		95144		447044	4.4054.0	76526	70883	83911	109965	
	Start	155634		117814	149518	212926	101209	125892	175259	
VTS8-900D-SR2	Run End	66177		44712	61445	94910	244630	276334		
		95144		51621	83325	146733	111643	128375		
	Start	155634	126735	165210	203685	280634	178437	210141		
VTS8-1000D-SR2	Run	66177	49420	69727	90033	130645				
	End	95144	60542	99017	137492	214441				
	Start	192815							145342	183817
VTS8-1000-SR1	Run	80780							53747	74053
	End	113300							58330	96805
	Start	192815							142561	180638
VTS8-700D-SR1	Run	80780							52279	72375
	End	113300							55549	93627
	Start	192815				122850	147534	172217	221583	
VTS8-800D-SR1	Run	80780				41876	54904	67931	93985	
	End	113300				35839	60522	85205	134572	
	Start	192815			129650	193058	224762	256466		
VTS8-900D-SR1	Run	80780			45465	78930	95663	112395		
	End	113300			42639	106046	137750	169454		
	Start	192815		145342	183817	260766				
VTS8-1000D-SR1	Run	80780		53747	74053	114665				
1.55 1000D OKT	End	113300		58330	96805	173755				
		Torque (Nm)	3 Bar	3.5 Bar	4 Bar	5 Bar	5. 5 Bar	6 Bar	7 Bar	



Dimension Drawing







Spring return acting

					Sprin	ng retu	ırn(mm)				
Model					Doub I	e acti	ng(mm)				
	Α	В	С	ФÐ	Е	F	G	Н	Т	A1	ΦD1
VTS1-200	658	145	355	223	88	60	NPT 3/8	80	235	1370	220
VTS1-250	658	145	355	280	88	60	NPT 1/2	110	235	1370	220
VTS1-300	658	145	355	332	88	60	NPT 1/2	124	235	1370	220
VTS1-350	658	145	355	362	88	60	NPT 1/2	132	235	1370	220
VTS2-250	709	170	355	280	94	74	NPT 1/2	110	285	1440	274
VTS2-300	709	170	355	332	94	74	NPT 1/2	124	285	1440	274
VTS2-350	709	170	355	362	94	74	NPT 1/2	132	285	1440	274
VTS2-400	725	170	372	413	94	74	NPT 3/4	158	285	1456	274
VTS2-450	778	170	425	463	94	74	NPT 3/4	178	285	1510	274
VTS3-300	816	195	411	332	98	89	NPT 1/2	124	320	1591	327
VTS3-350	816	195	411	362	98	89	NPT 1/2	132	320	1591	327
VTS3-400	827	195	422	413	98	89	NPT 3/4	158	320	1602	327
VTS3-450	830	195	425	463	98	89	NPT 3/4	178	320	1605	327
VTS3-500	830	195	425	514	98	89	NPT 3/4	202	320	1605	327
VTS4-350	977	238	487	362	115	108	NPT 1/2	132	396	1927	408
VTS4-400	977	238	487	413	115	108	NPT 3/4	158	396	1927	408
VTS4-450	980	238	490	463	115	108	NPT 3/4	178	396	1930	408
VTS4-500	980	238	490	514	115	108	NPT 3/4	202	396	1930	408
VTS4-600	1000	238	510	616	115	108	NPT 3/4	244	396	1950	408
VTS5-500	1191	298	580	514	163	140	NPT 3/4	202	505	2249	508
VTS5-600	1211	298	600	616	163	140	NPT 3/4	244	505	2269	508
VTS5-700	1244	298	633	739	163	140	NPT 1	305	505	2302	508
VTS5-800	1280	298	679	839	163	140	NPT 1-1/2	355	505	2348	508
VTS6-600	1470	370	700	616	203	171	NPT 3/4	244	620	2636	682
VTS6-700	1523	370	753	739	203	171	NPT 1	305	620	2689	682
VTS6-800	1532	370	762	839	203	171	NPT 1-1/2	355	620	2698	682
VTS6-900	1536	370	766	947	203	171	NPT 1-1/2	402	620	2702	682
VTS6-700D		370	1500	739	203	171	NPT 1	305	620	3436	682
VTS7-700	1760	425	880	739	23	203	NPT 1	305	690	3590	682
VTS7-800	1760	425	880	839	23	203	NPT 1-1/2	355	690	3590	682
VTS7-900	1760	425	880	947	23	203	NPT 1-1/2	402	690	3590	682
VTS7-1000	1760	425	880	1048	23	203	NPT 2	456	690	3590	682
VTS7-800D	_	425	1725	839	23	203	NPT 1-1/2	355	690	4435	682

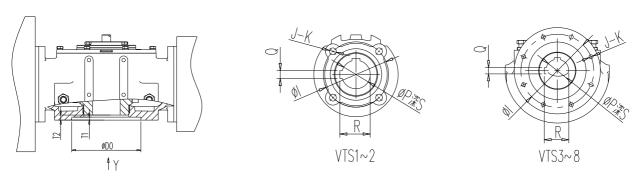
Note: Air source interface standard configuration NPT, optional configuration RC, if you need special thread and diameter should be specified in the order.



Mode l]								
	A	В	С	ФД	Е	F	G	Н	Т	A1	ΦD1
VTS8-700	2154	562	1030	739	258	266	NPT1	305	1012	4228	682
VTS8-800	2154	562	1030	839	258	266	NPT1-1/2	355	1012	4228	682
VTS8-900	2154	562	1030	947	258	266	NPT1-1/2	402	1012	4228	682
VTS8-1000	2154	562	1030	1048	258	266	NPT2	456	1012	4228	682
VTS8-800D	-	562	1030	839	258	266	NPT1-1/2	355	1012	5248	682
VTS8-900D	_	562	1030	947	258	266	NPT1-1/2	402	1012	5248	682

Note: Air source interface standard configuration NPT, optional configuration RC, if you need special thread and diameter should be specified in the order.

Mounting Dimensions



Connection dimension sheet

Mode I		Dimension (mm)													
mode i	ΦΙ	J-K	ФР	S	Q	R	Ф D0	T1	T2						
VTS1	140	4-M16	60	145	18	64. 4	100	10	14. 5						
VTS2	165	4-M20	72	155	20	76. 9	130	10	15. 5						
VTS3	254	8-M16	80	175	22	85. 4	200	9	9. 5						
VTS4	298	8-M20	100	200	28	106. 4	230	10	13						
VTS5	356	8-M30	160	295	40	169. 4	260	10	16						
VTS6	406	8-M36	180	360	45	190. 4	300	10	22						
VTS7	483	12-M36	220	380	50	231. 4	370	10	22						
VTS8	603	20-M36	260	445	63	292. 4	470	10	22						



Manual modular

				Double Act	ing (DA)		Spring Return Acting (SR)					
Model	ISO flange connection	Torque Range	Sci	rew	Worm gear	Hydraulic	Scr	ew	Worm gear manual	Hydraulic		
		(NM)	Jack screw manual override MSD	Gearbox manual override MGD	manual override MW	пуштаціїс	Jack screw manual Gearbox manual override MG		override MW	пуштаціїс		
VTS1	F14	2000	√ °	_	√	_	√ °	_	√	_		
VTS2	F16	4000	√ °	_	√	_	√ °	1	√	_		
VTS3	F25	8000	√ °	√	√	√	√ °	√ °	_	√		
VTS4	F30	16000	-	√ °	_	√	ı	√ °	_	√		
VTS5	F35	32000	_	√	_	√ c	1	√	_	√ °		
VTS6	F40	63000	_	_	_	√ c	_	_	_	√ °		
VTS7	F48	125000	_	_	_	√ °	_	_	_	√ °		
VTS8	F60	250000	_	_	_	√ °	_	<u>-</u>	_	√ °		

Note: $\sqrt{^c}$ Recommended configuration.

Double acting switch time requirements, try to avoid the selection of hydraulic.

Turbine worm clutch handwheel is optional when the actuator has space requirement in the length direction.

Actuator in the adjustment occasions, there are precision requirements, avoid choosing turbine worm clutch handwheel.

VTS3-SR recommends MS for SR3 and MG for SR2 and above.



Model Designation

Pneumatic Yoke Type Actuator	VTS	Х	-	XXX	-	ХХ	Х	ХХ	-	XX	-	Х
	Connection flange F14	1										
	Connection flange F16	2										
	Connection flange F25	3										
Drive Housing	Connection flange F30	4										
	Connection flange F35	5										
	Connection flange F40	6										
	Connection flange F48	7										
	Connection flange F60	8										
Cylinder Size	Select the cylinder according to th	e torque	sheet	200~1000								
A-to-t To	Spring return type					SR						
Actuator Type	Double acting type					/						
Spring No.	Select the spring according to	the t	orque s	sheet			1~4					
opi ing No.	Double acting type						/					
	Fail to close	ail to close										
Fail Position	Fail to open							F0				
	Double acting							/				
Manual actuator	Spring Return Acting									See the configuration		
maridar accuacor	Double Acting			table								
	Standard temperature											/
Temperature Range	High temperature											НТ
Tompor a cur o Range	Low temperature type											LT
	Ultra-low temperature type											LLT



t +44 (0) 23 8066 9666

f +44 (0) 23 8066 9606

sales@johnsonvalves.com