

motivact

MVR SERIES:

Stainless Steel Quarter Turn, Scotch Yoke
Pneumatic & Hydraulic Actuators

- Full Stainless Steel Trim
- Double Acting and Spring Return
- Captured Modular Spring Cartridge
- Temperature Rating -20 C +110 C
- High Temperature Option + 200 C
- Pressure Rating 120 PSI
- Hydraulic Option
- Full Range of Accessories
- Australian Manufactured



HIGH PERFORMANCE ACTUATION



motivact

MVR SERIES

316 SS QUARTER-TURN ACTUATORS



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HIGH PERFORMANCE ACTUATORS



MATERIALS OF CONSTRUCTION

	Model: MVR—SS 316 SS Trim STD up to MVR 110	Model: MVR—CS MVR 160 and Above Only
Body	316 SS	Steel
End Caps	316 SS	Steel
Barrel	316 SS	FRP
Piston	316 SS	Steel
Output Shaft	17-4ph SS	17-4ph SS
Yoke	17-4ph SS	17-4ph SS
Drive Pin	17-4ph SS	17-4ph SS
Piston Rod	316SS	316SS
Tie Rod	316SS	316SS
Fasteners	316SS	316SS
Bushes	GF Teflon	Bronze Teflon
Seals	Nitrile	Nitrile (<i>Viton Optional</i>)
Indicator	Acetal	Acetal



HIGH PERFORMANCE ACTUATORS



Valve Sizing

- Air Break = Torque available to break out of valve seat when Air applied
- Spring end = Available spring torque to re-seat the valve in fail safe situation
- Air end = Available torque to fully open valve
- Spring break = Available spring torque to close valve from open position
- Run torque = Available torque mid travel



Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
				2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
MVR 4 DA	0	0	0	26	18	26	38	37	38	46	62	46	51	36	51	65	45	65	79	55	79
MVR 6 DA	0	0	0	37	26	37	55	38	55	66	46	66	73	51	73	93	65	93	113	79	113
MVR 16 DA	0	0	0	97	68	97	145	101	145	175	123	175	193	135	193	246	172	246	313	219	313
MVR 25 DA	0	0	0	136	95	136	204	143	204	247	173	247	272	190	272	346	242	346	441	308	441
MVR 38 DA	0	0	0	207	145	207	311	217	311	376	263	376	414	290	414	527	369	527	671	469	671
MVR 55 DA	0	0	0	298	208	298	446	312	446	541	379	541	595	417	595	757	530	757	964	675	964
MVR 76 DA	0	0	0	414	290	414	621	435	621	753	527	753	828	580	828	1054	738	1054	1341	939	1341
MVR 110 DA	0	0	0	595	417	595	893	625	893	1082	757	1082	1190	833	1190	1515	1060	1515	1928	1345	1928
MVR 160-8	0	0	0	722	510	722	1083	765	1083	1264	893	1264	1444	1020	1444	1805	1275	1805	2166	1530	2166
MVR 160-10	0	0	0	1057	747	1057	1586	1121	1586	1850	1307	1850	2114	1494	2114	2643	1868	2643	3171	2241	3171
MVR 340-10	0	0	0	1407	985	1407	2111	1478	2111	2482	1724	2482	2814	1970	2814	3518	2463	3518	4221	2955	4221
MVR 340-12	0	0	0	2082	1457	2082	3123	2186	3123	3644	2550	3644	4164	2914	4164	5205	3643	5205	6246	4371	6246
MVR 800-12	0	0	0	3302	2328	3302	4953	3492	4953	5779	4074	5779	6604	4856	6604	8255	5820	8255	9906	6984	9906
MVR 800-14	0	0	0	4306	3036	4306	6459	4554	6459	7536	5313	7536	8612	6072	8612	10765	7590	10765	12918	9108	12918
MVR 800-16	0	0	0	5580	3935	5580	8370	5903	8370	9765	6886	9765	11160	7870	11160	13950	9838	13950	16740	11805	16740
MVR 1600-14	0	0	0	6828	4830	6828	10242	7245	10242	11949	8453	11949	13656	9660	13656	17070	12075	17070	20484	14490	20484
MVR 1600-16	0	0	0	8843	6255	8843	13265	9383	13265	15475	10946	15475	17686	12510	17686	22108	15638	22108	26529	18765	26529
MVR 1600-18	0	0	0	10442	7386	10442	15663	11079	15663	18274	12926	18274	20884	14772	20884	26105	18465	26105	31326	22158	31326
MVR 4 SR 40	14	7	9	17	8	8	29	14	20	37	18	28	42	21	33	56	27	47	70	34	61
MVR 4 SR 60	21	10	14				25	12	14	34	17	22	39	19	24	54	26	36	68	33	48
MVR 4 SR 80	28	13	18							28	14	14	33	16	18	47	23	31	61	29	43
MVR 6 SR 40	21	10	13	24	11	13	41	20	29	55	26	42	61	29	48	82	39	66	102	49	85
MVR 6 SR 60	31	15	20				35	17	20	49	24	32	56	27	34	76	37	52	97	47	70
MVR 6 SR 80	41	20	26							40	19	20	47	23	26	67	32	44	87	42	63
MVR 16 SR 40	53	25	34	63	30	34	109	53	75	145	70	107	163	78	123	217	104	171	270	130	219
MVR 16 SR 60	80	38	50				95	45	50	131	63	83	149	71	88	203	97	134	257	124	179
MVR 16 SR 80	106	51	67							108	52	51	126	60	67	179	86	114	231	111	161
MVR 25 SR 40	91	50	49	92	50	49	154	74	106	204	98	152	230	110	175	305	146	243	381	183	311
MVR 25 SR 60	113	54	71				133	64	71	184	88	117	209	100	125	286	137	189	362	174	254
MVR 25 SR 80	150	72	95							152	73	73	177	85	95	251	121	162	325	156	229
MVR 38 SR 40	115	55	73	135	65	73	234	112	163	311	149	232	349	168	266	484	223	370	579	278	474
MVR 38 SR 60	172	82	109				202	97	109	279	134	179	318	153	190	435	209	289	551	265	386
MVR 38 SR 80	229	110	145							231	111	111	269	129	145	382	183	247	495	238	349
MVR 55 SR 40	198	109	104	200	110	107	337	162	233	447	215	333	502	241	382	667	320	532	833	400	681
MVR 55 SR 60	247	118	156				290	139	156	402	193	257	458	220	273	625	300	415	792	380	557
MVR 55 SR 80	329	158	208							333	160	159	387	186	208	549	264	354	712	342	501
MVR 76 SR 40	229	110	145	269	129	145	468	225	325	622	298	464	698	335	533	926	446	741	1158	556	948
MVR 76 SR 60	344	165	218				404	194	218	559	268	358	636	305	381	869	417	578	1102	529	776
MVR 76 SR 80	458	220	302							470	226	222	538	258	290	742	356	494	945	454	698
MVR 110 SR 40	403	189	208	343	153	135	673	323	466	894	429	665	1004	482	764	1335	641	1062	1665	799	1360
MVR 110 SR 60	493	237	312				581	279	312	804	386	513	915	439	546	1250	600	829	1585	761	1113
MVR 110 SR 80	657	315	416							666	320	318	774	372	416	1099	527	709	1423	683	1001
MVR 160-8-40	462	251	249	472	259	259	834	514	621	1015	642	802	1195	769	962	1556	1024	1343	1917	1279	1704
MVR 160-8-60	693	377	374				709	388	389	890	516	571	1070	643	751	2269	898	1112	1792	1153	1473
MVR 160-8-80	924	502	498										945	517	519	1307	773	881	1668	1028	1242
MVR 160-10-40	693	377	374	683	370	364	1212	744	893	1476	930	1157	1740	1117	1421	2269	1491	1950	2797	1864	2478
MVR-160-10-60	1040	565	561				1025	555	546	1289	742	224	1553	929	1074	2082	1303	1603	2610	1676	2131
MVR-160-10-80	1387	754	748							1102	553	463	1367	740	728	1895	1114	1256	2423	1487	1764
MVR-340-10-40	904	488	490	916	497	503	1621	990	1207	1972	1236	1558	2324	1482	1910	3028	1975	2814	3731	2467	3317
MVR-340-10-60	1356	732	736				1375	745	754	1726	992	1726	2078	1238	1458	2782	1731	2162	3485	2223	2865
MVR-340-10-80	1743	953	981							1481	771	719	1833	1016	1070	2537	1510	1775	3240	2002	2478
MVR-340-12-40	1297	709	730	1352	731	737	2393	1477	1826	2914	1841	2347	3434	1617	2867	4475	2934	3908	5516	3662	4949
MVR-340-12-60	1946	1064	1095				2028	1097	1105	2549	1486	1698	3069	1850	2218	4110	2579	3259	5151	3307	4300
MVR-340-12-80	2595	1419	1460							2184	1131	1049	2704	1496	1569	3745	2224	2610	4786	2952	3651
MVR-800-12-40	2056	1132	1157	2145	1195	1246	3796	2360	2697	4622	2942	3723	5447	3524	4548	7098	4688	6199	8749	5852	7850
MVR-800-12-60	3084	1699	1736				3217	1793	1869	4043	2375	2695	4868	2957	3520	6519	4121	5171	8170	5285	6822
MVR-800-12-80	4112	2265																			

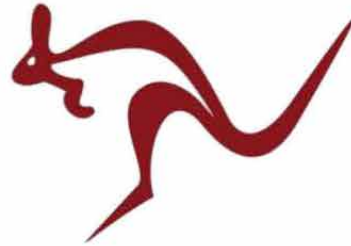
MOTIVACT TORQUE SHEET
Valve Sizing

- Air Break = Torque available to break out of valve seat when Air applied
- Spring end = Available spring torque to re-seat the valve in fail safe situation
- Air end = Available torque to fully open valve
- Spring break = Available spring torque to close valve from open position
- Run torque = Available torque mid travel



Actuator Model	Spring Torque (inlbs)			Air Torque (inlbs) @ Stated Supply Pressure																							
				2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)								
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End			
MVR 4 DA	0	0	0	230	159	230	336	327	336	407	549	407	451	319	451	575	398	575	699	487	699						
MVR 6 DA	0	0	0	327	230	327	487	336	487	584	407	584	646	451	646	823	575	823	1000	699	1000						
MVR 16 DA	0	0	0	858	602	858	1283	894	1283	1549	1089	1549	1708	1195	1708	2177	1522	2177	2770	1938	2770						
MVR 25 DA	0	0	0	1204	841	1204	1805	1266	1805	2186	1531	2186	2407	1682	2407	3062	2142	3062	3903	2726	3903						
MVR 38 DA	0	0	0	1832	1283	1832	2752	1920	2752	3328	2328	3328	3664	2567	3664	4664	3266	4664	5938	4151	5938						
MVR 55 DA	0	0	0	2637	1841	2637	3947	2761	3947	4788	3354	4788	5266	3690	5266	6699	4891	6699	8531	5974	8531						
MVR 76 DA	0	0	0	3664	2567	3664	5496	3850	5496	6664	4664	6664	7328	5133	7328	9328	6531	9328	11868	8310	11868						
MVR 110 DA	0	0	0	5266	3690	5266	7903	5531	7903	9576	6699	9576	10532	7372	10532	13408	9381	13408	17063	11903	17063						
MVR 160-S	0	0	0	6390	4514	6390	9585	6770	9585	11182	7899	11182	12779	9027	12779	15974	11284	15974	19169	13541	19169						
MVR 160-10	0	0	0	9354	6611	9354	14032	9916	14032	16370	11569	16370	18709	13222	18709	23386	16527	23386	28063	19833	28063						
MVR 340-10	0	0	0	12452	8717	12452	18678	13076	18678	21791	15255	21791	24904	17435	24904	31130	21793	31130	37356	26152	37356						
MVR 340-12	0	0	0	18426	12894	18426	27639	19342	27639	32245	22565	32245	36851	25789	36851	46064	32236	46064	55277	38683	55277						
MVR 800-12	0	0	0	29223	20603	29223	43834	30904	43834	51140	36055	51140	58445	41206	58445	73057	51507	73057	87668	61808	87668						
MVR 800-14	0	0	0	38108	26869	38108	57162	40303	57162	66689	47020	66689	76216	53737	76216	95270	67172	95270	114324	80606	114324						
MVR 800-16	0	0	0	49383	34825	49383	74075	52237	74075	86420	60943	86420	98766	69650	98766	123458	87062	123458	148149	104474	148149						
MVR 1600-14	0	0	0	60428	42746	60428	90642	64118	90642	105749	74805	105749	120856	85491	120856	151070	106864	151070	181283	128237	181283						
MVR 1600-16	0	0	0	78261	55357	78261	117391	83035	117391	136956	96874	136956	156521	110714	156521	195651	138392	195651	234782	166070	234782						
MVR 1600-18	0	0	0	92412	65366	92412	138618	98049	138618	161720	114391	161720	184823	130732	184823	231029	163415	231029	277235	196098	277235						
MVR 4 SR 40	124	62	80	150	74	71	257	126	177	327	160	248	372	182	292	496	243	416	620	304	840						
MVR 4 SR 60	186	89	124				221	108	124	301	147	195	345	168	212	478	230	319	602	292	425						
MVR 4 SR 80	248	115	159							248	121	124	292	142	159	416	204	274	540	257	381						
MVR 6 SR 40	186	89	115	212	97	115	363	177	257	487	230	372	540	257	425	726	345	584	903	434	752						
MVR 6 SR 60	274	133	177				310	150	177	434	212	283	496	239	301	673	327	460	858	416	620						
MVR 6 SR 80	363	177	230							354	168	177	416	204	230	593	283	389	770	372	558						
MVR 16 SR 40	469	221	301	558	266	301	965	469	564	1283	620	947	1443	690	1089	1920	920	1513	2390	1151	1938						
MVR 16 SR 60	708	336	443				841	398	443	1159	558	735	1319	628	779	1797	858	1186	2274	1097	1584						
MVR 16 SR 80	938	451	593							956	460	451	1115	531	593	1584	781	1008	2044	982	1425						
MVR 25 SR 40	805	443	434	814	443	434	1363	655	938	1805	867	1345	2036	974	1549	2699	1292	2151	3372	1620	2752						
MVR 25 SR 60	1000	478	628				1177	566	628	1628	779	1035	1850	885	1106	2531	1212	1673	3204	1540	2248						
MVR 25 SR 80	1328	637	841							1345	646	646	1566	752	841	2221	1071	1434	2876	1381	2027						
MVR 38 SR 40	1018	487	646	1195	575	646	2071	991	1443	2752	1319	2053	3089	1487	2354	4106	1974	3275	5124	2460	4195						
MVR 38 SR 60	1522	726	965				1788	858	965	2469	1186	1584	2814	1354	1682	3850	1850	2508	4876	2345	3434						
MVR 38 SR 80	2027	974	1283							2044	982	982	2381	1142	1283	3381	1620	2186	4381	2106	3089						
MVR 55 SR 40	1752	965	920	1770	974	947	2982	1434	2062	3956	1903	2947	4443	2133	3381	5903	2832	4708	7372	3540	6027						
MVR 55 SR 60	2186	1044	1381				2567	1230	1381	3558	1708	2274	4053	1947	2416	5531	2655	3673	7009	3363	4929						
MVR 55 SR 80	2912	1398	1841							2947	1416	1407	3425	1646	1841	4859	2336	3133	6301	3027	4434						
MVR 76 SR 40	2027	974	1283	2381	1142	1283	4142	1991	2876	5505	2637	4106	6177	2965	4717	8195	3947	6558	10248	4921	8390						
MVR 76 SR 60	3044	1460	1929				3575	1717	1929	4947	2372	3168	5629	2699	3372	7691	3690	5115	9753	4682	6868						
MVR 76 SR 80	4053	1947	2673							4160	2000	1965	4761	2283	2567	6567	3151	4372	8363	4018	6177						
MVR 110 SR 40	3567	1673	1841	3036	1354	1195	5956	2859	4124	7912	3797	5885	8885	4266	6761	11815	5673	9399	14735	7071	12036						
MVR 110 SR 60	4363	2097	2761				5142	2469	2761	7115	3416	4540	8098	3885	4832	11063	5310	7337	14027	6735	9850						
MVR 110 SR 80	5814	2788	3682							5894	2832	2814	6850	3292	3682	9726	4664	6275	12594	6045	8859						
MVR 160-S-40	4089	2221	2204	4177	2292	2202	7381	4549	5496	8978	5677	7093	10576	6806	8691	13771	9062	11886	16965	11319	15080						
MVR 160-S-60	6133	3336	3310				6275	3434	3443	7872	4562	5049	9470	5691	6646	20076	7947	9841	15859	10204	13036						
MVR 160-S-80	8177	4443	4407							0	0	0	8363	4575	4593	11567	6841	7797	14762	9098	10992						
MVR 160-10-40	6133	3336	3310	6045	3275	3221	10722	6580	7899	13060	8233	10237	15399	9885	12576	20076	13191	17253	24753	16496	21930						
MVR-160-10-60	9204	5000	4965				9071	4912	4832	11405	6569	1978	13744	8222	9505	18421	11527	14182	23099	14833	18859						
MVR-160-10-80	12275	6673	6620							9750	4896	4095	12098	6549	6443	16786	9854	11111	21444	13160	15788						
MVR-340-10-40	8000	4319	4337	8107	4398	4452	14341	8757	10678	17454	10936	13791	20567	13116	16904	26793	17474	23129	33019	21833	29396						
MVR-340-10-60	12001	6478	6514				12169	6593	6673	15277	8777	15277	18390	10956	12903	24616	15315	19129	30842	19674	25356						
MVR-340-10-80	15426	8434	8682							13109	6821	6365	16222	8992	9470	22448	1335										

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 4

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.

MVR 4-torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
		0	0	0	26	18	26	38	37	38	46	62	46	51	36	51	65	45	65	79	55	79
	MVR 4 DA																					
	MVR 4 SR 40	14	7	9	17	8	8	29	14	20	37	18	28	42	21	33	56	27	47	70	34	61
	MVR 4 SR 60	21	10	14				25	12	14	34	17	22	39	19	24	54	26	36	68	33	48
	MVR 4 SR 80	28	13	18							28	14	14	33	16	18	47	23	31	61	29	43

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

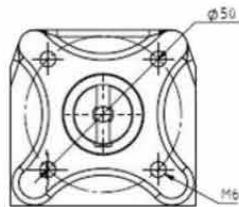
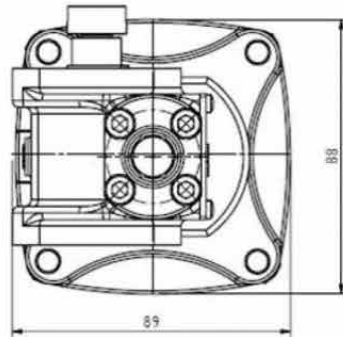
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0
MODEL			SIZE			TRIM			ACTION			RATING				
MODEL			MVR = MOTIVACT ROTARY													
SIZE			SELECT FROM CHART													
TRIM			BODY / ENDS / BARREL													
			S = 316SS													
			C = EPOXY STEEL PAINTED													
			F = FRP (FIBREGLASS REINFORCED PLASTIC)													
ACTION			STC = SPRING TO CLOSE													
			STO = SPRING TO OPEN													
			DA = DOUBLE ACTING													
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI													

** nb : models 004 - 110 only available in SSS trim as standard unless special order

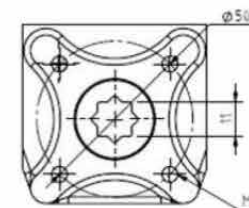
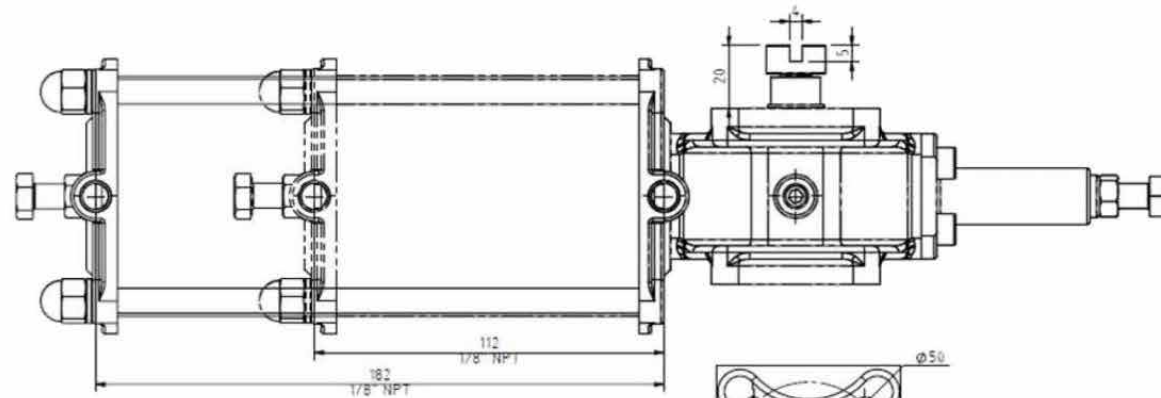
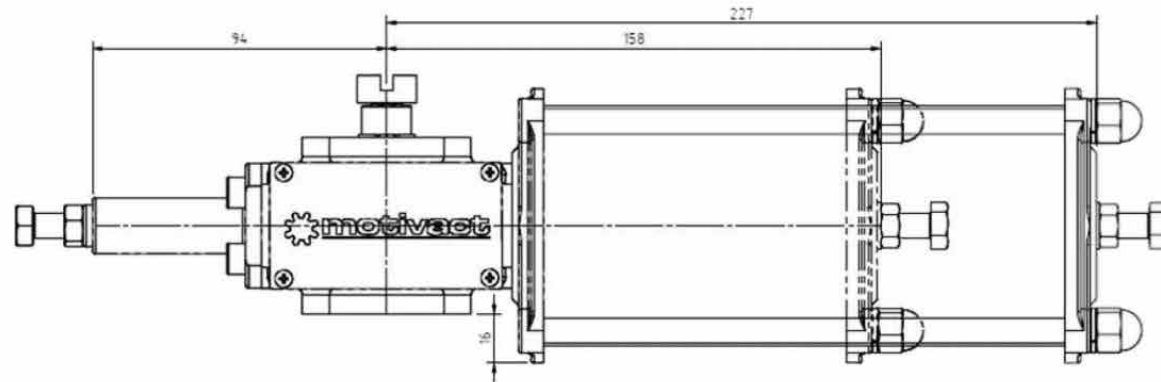


Pneumatic Power unit Dimensions



TOP MOUNTING
ACCESSORY

WEIGHT DA = 2.9KG
WEIGHT SR = 4.3KG

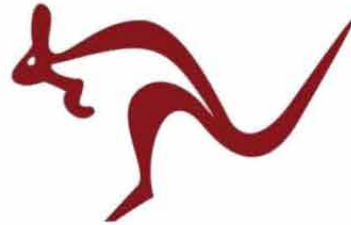


BOTTOM MOUNTING



MVR 4

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured

Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 6

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° +/- 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.

MVR 6- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
		0	0	0	37	26	37	55	38	55	66	46	66	73	51	73	93	65	93	113	79	113
MVR 6 DA	MVR 6 DA	0	0	0	37	26	37	55	38	55	66	46	66	73	51	73	93	65	93	113	79	113
	MVR 6 SR 40	21	10	13	24	11	13	41	20	29	55	26	42	61	29	48	82	39	66	102	49	85
	MVR 6 SR 60	31	15	20				35	17	20	49	24	32	56	27	34	76	37	52	97	47	70
	MVR 6 SR 80	41	20	26							40	19	20	47	23	26	67	32	44	87	42	63

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

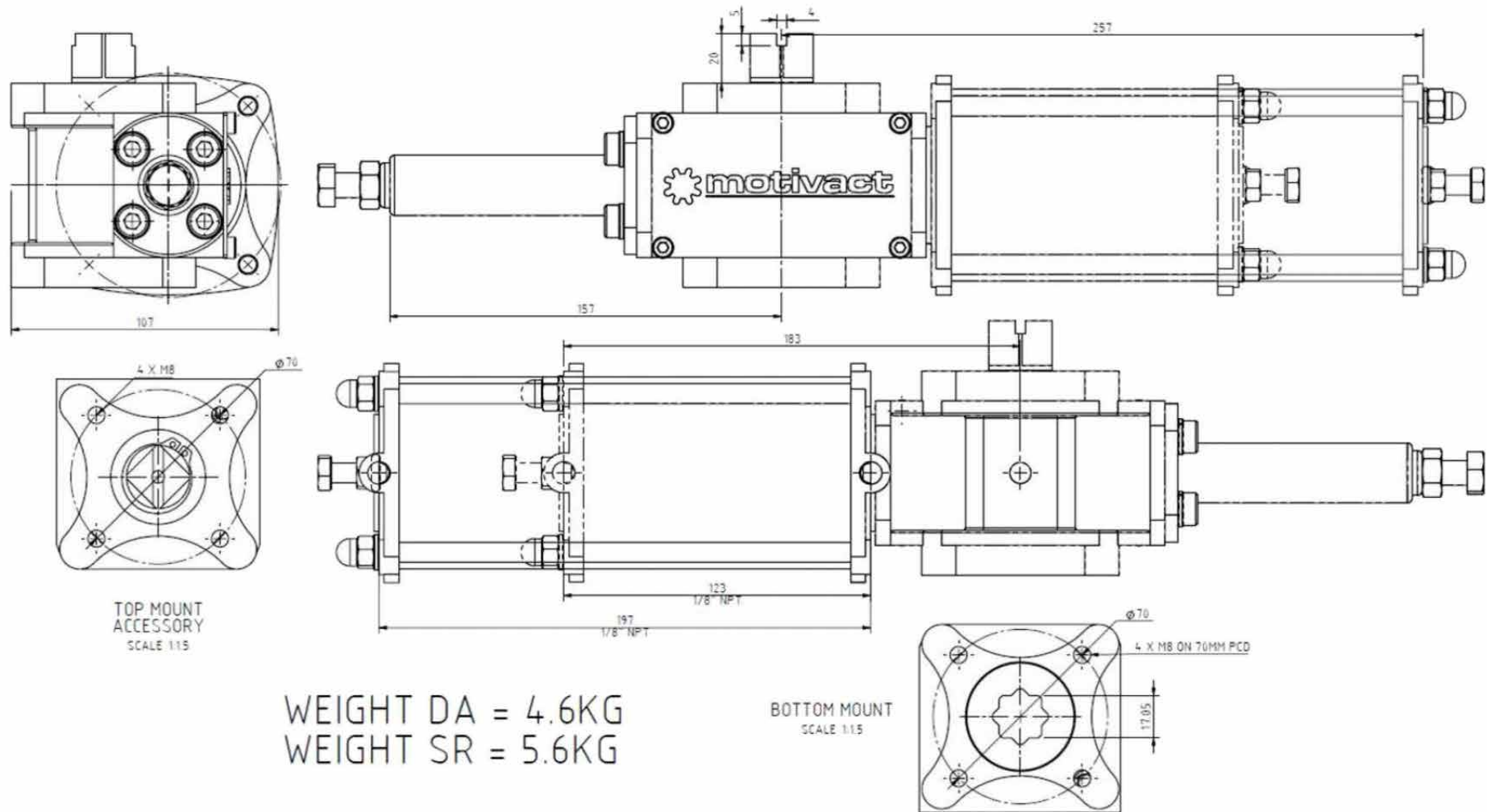
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S		S	T	C		0	8	0
↓				↓				↓				↓				↓		
MODEL				SIZE				TRIM				ACTION				RATING		
MODEL			MVR = MOTIVACT ROTARY															
SIZE			SELECT FROM CHART															
TRIM			BODY / ENDS / BARREL															
			S = 316SS															
			C = EPOXY STEEL PAINTED															
			F = FRP (FIBREGLASS REINFORCED PLASTIC)															
ACTION			STC = SPRING TO CLOSE															
			STO = SPRING TO OPEN															
			DA = DOUBLE ACTING															
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI															

** nb : models 004 - 110 only available in SSS trim as standard unless special order

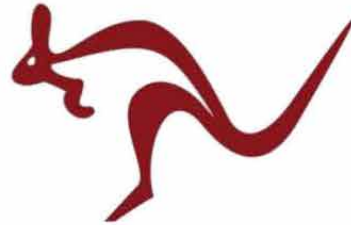


Pneumatic Power unit Dimensions



MVR 6

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured

Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 16

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

• All Torques are in Nm

• Media should be clean and suitable for selected seal material.

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 16- torque	Actuator Model	Spring Torque Nm			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
	MVR 16 DA	0	0	0	97	68	97	145	101	145	175	123	175	193	135	193	246	172	246	313	219	313
	MVR 16 SR 40	53	25	34	63	30	34	109	53	75	145	70	107	163	78	123	217	104	171	270	130	219
	MVR 16 SR 60	80	38	50				95	45	50	131	63	83	149	71	88	203	97	134	257	124	179
	MVR 16 SR 80	106	51	67							108	52	51	126	60	67	179	86	114	231	111	161

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

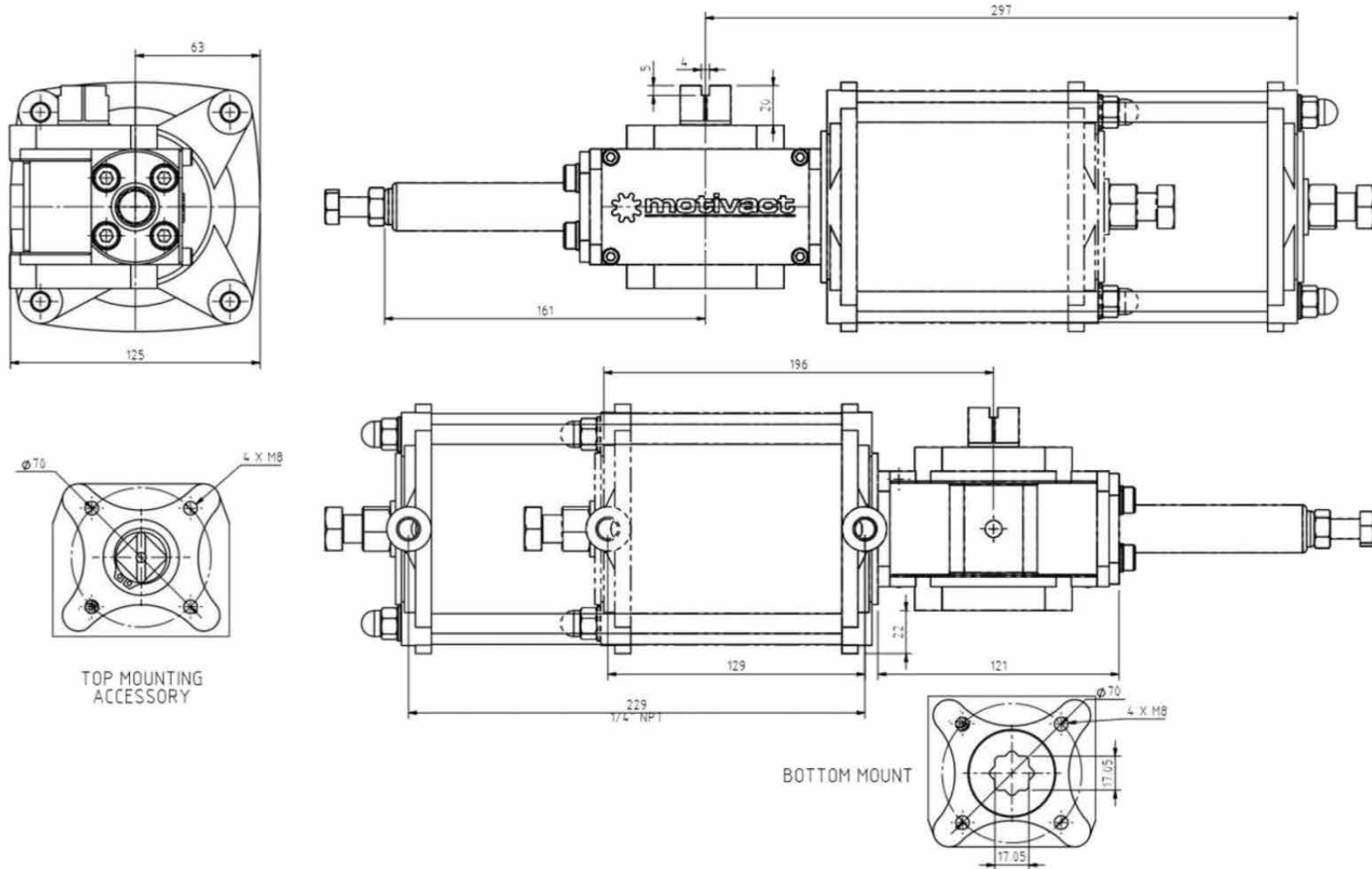
MVR SERIES - HOW TO ORDER

M V R	-	0 5 5	-	S S S	S T C	0 8 0
MODEL		SIZE		TRIM	ACTION	RATING
MODEL	MVR = MOTIVACT ROTARY					
SIZE	SELECT FROM CHART					
TRIM	BODY / ENDS / BARREL S = 316SS C = EPOXY STEEL PAINTED F = FRP (FIBREGLASS REINFORCED PLASTIC)					
ACTION	STC = SPRING TO CLOSE STO = SPRING TO OPEN DA = DOUBLE ACTING					
RATING	SPRING SET RATING 040 / 060 / 080 - IN PSI					

** nb : models 004 - 110 only available in SSS trim as standard unless special order

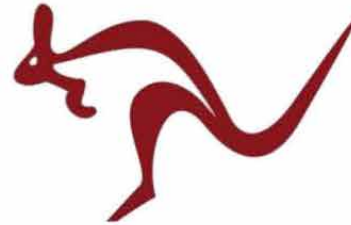


Pneumatic Power unit Dimensions



MVR 16

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured

Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 25

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.

MVR 25- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
	MVR 25 DA	0	0	0	136	95	136	204	143	204	247	173	247	272	190	272	346	242	346	441	308	441
	MVR 25 SR 40	91	50	49	92	50	49	154	74	106	204	98	152	230	110	175	305	146	243	381	183	311
	MVR 25 SR 60	113	54	71				133	64	71	184	88	117	209	100	125	286	137	189	362	174	254
	MVR 25 SR 80	150	72	95							152	73	73	177	85	95	251	121	162	325	156	229

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

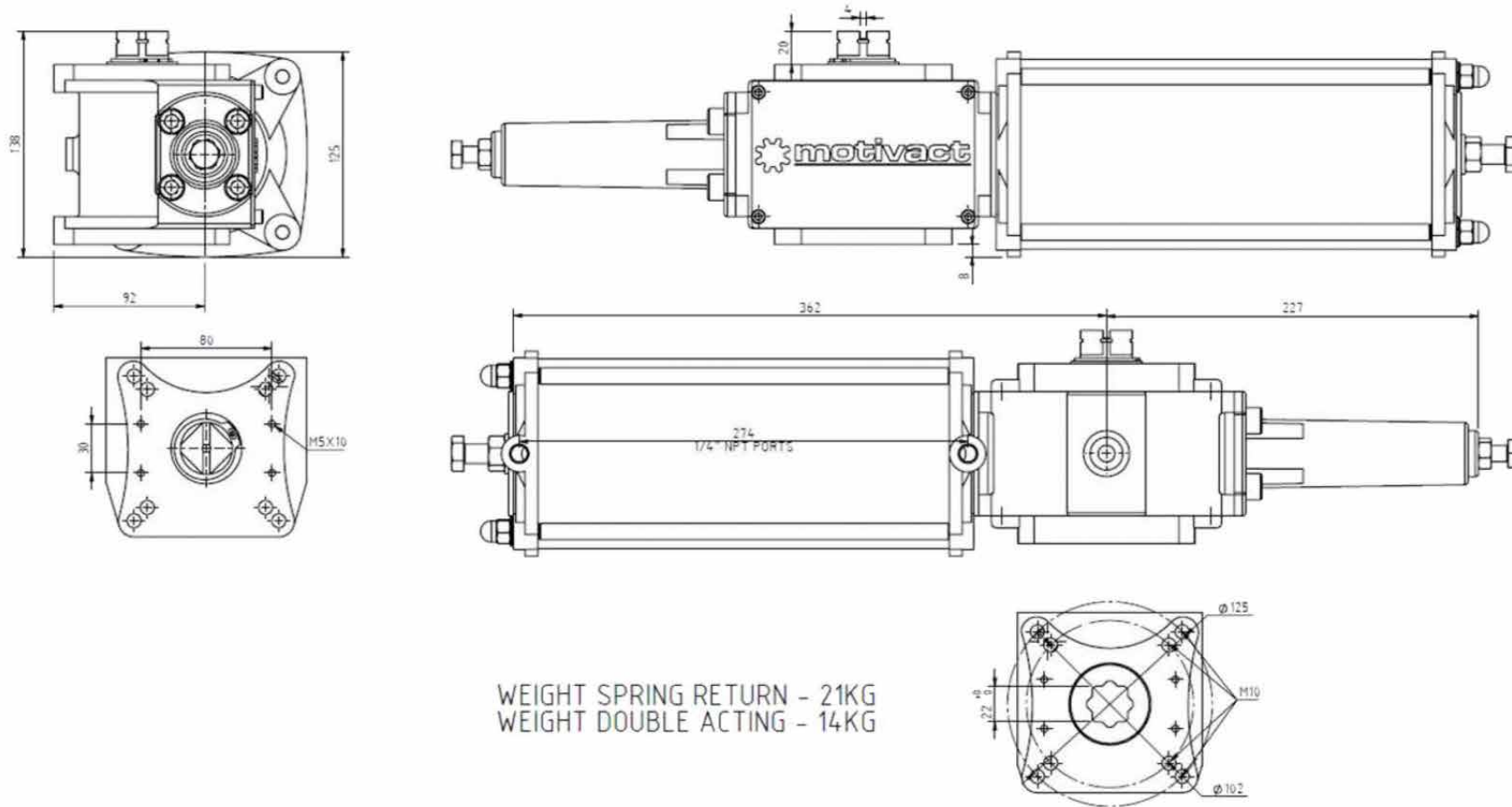
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0
MODEL			SIZE			TRIM			ACTION			RATING				
MODEL			MVR = MOTIVACT ROTARY													
SIZE			SELECT FROM CHART													
TRIM			BODY / ENDS / BARREL			S = 316SS			C = EPOXY STEEL PAINTED			F = FRP (FIBREGLASS REINFORCED PLASTIC)				
ACTION			STC = SPRING TO CLOSE			STO = SPRING TO OPEN			DA = DOUBLE ACTING							
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI													

** nb : models 004 - 110 only available in SSS trim as standard unless special order

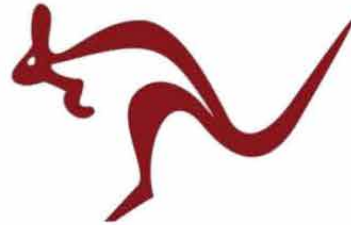


Pneumatic Power unit Dimensions



MVR 25

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured

Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 38

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

• All Torques are in Nm

• Media should be clean and suitable for selected seal material.

MVR 38- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
					Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
					Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
	MVR 38 DA	0	0	0	207	145	207	311	217	311	376	263	376	414	290	414	527	369	527	671	469	671
	MVR 38 SR 40	115	55	73	135	65	73	234	112	163	311	149	232	349	168	266	464	223	370	579	278	474
	MVR 38 SR 60	172	82	109				202	97	109	279	134	179	318	153	190	435	209	289	551	265	388
	MVR 38 SR 80	229	110	145							231	111	111	269	129	145	382	183	247	495	238	349

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

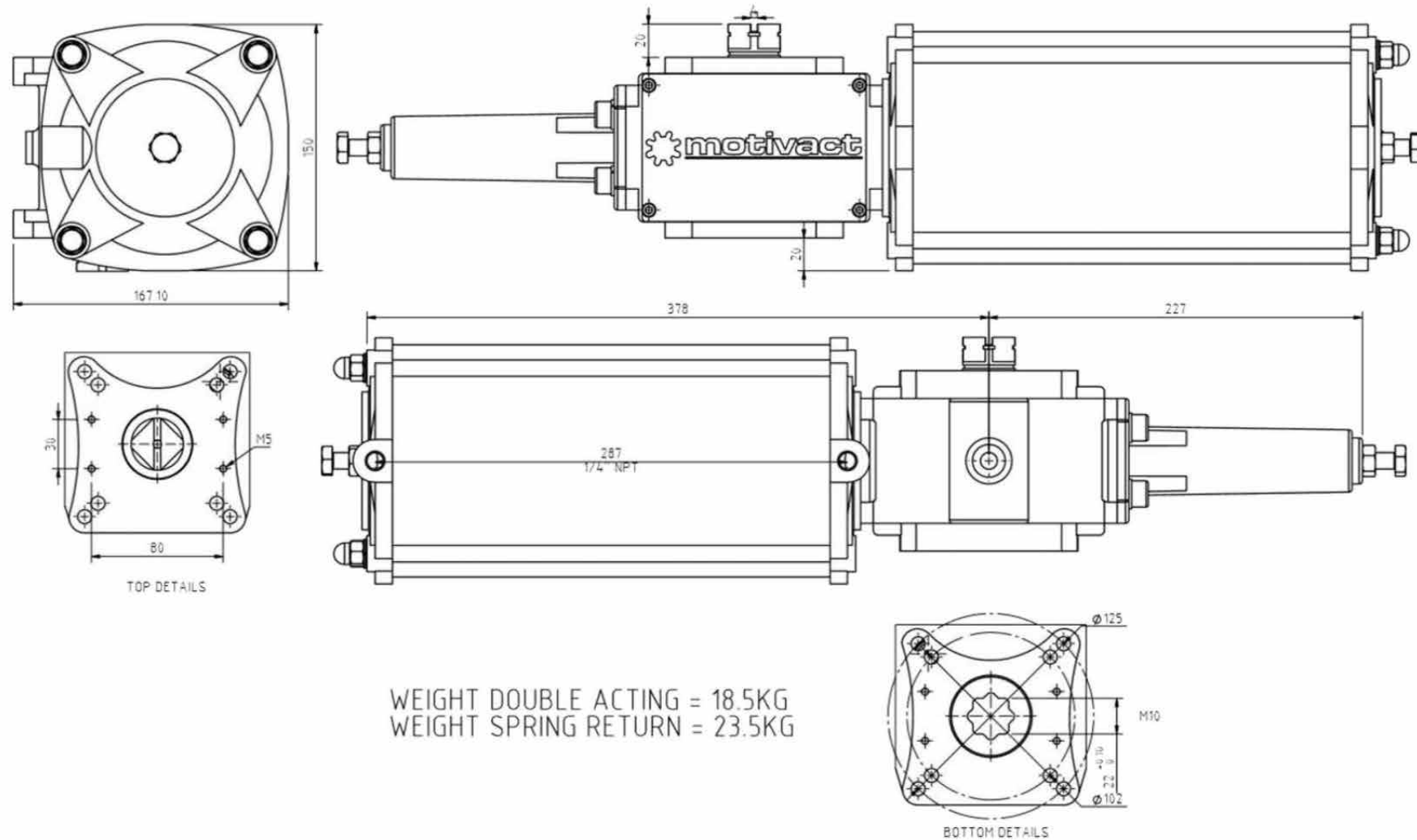
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0
↓				↓				↓				↓			↓	
MODEL				SIZE				TRIM				ACTION			RATING	
MODEL			MVR = MOTIVACT ROTARY													
SIZE			SELECT FROM CHART													
TRIM			BODY / ENDS / BARREL S = 316SS C = EPOXY STEEL PAINTED F = FRP (FIBREGLASS REINFORCED PLASTIC)													
ACTION			STC = SPRING TO CLOSE STO = SPRING TO OPEN DA = DOUBLE ACTING													
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI													

** nb : models 004 - 110 only available in SSS trim as standard unless special order

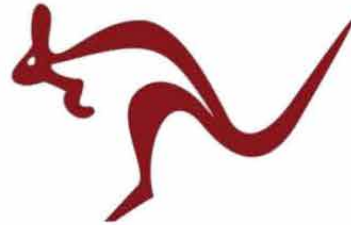


Pneumatic Power unit Dimensions



MVR 38

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured

Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 55

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

•All Torques are in Nm

• Media should be clean and suitable for selected seal material.

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 55- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
		0	0	0	298	208	298	446	312	446	541	379	541	595	417	595	757	530	757	964	675	964
	MVR 55 DA																					
	MVR 55 SR 40	198	109	104	200	110	107	337	162	233	447	215	333	502	241	382	667	320	532	833	400	681
	MVR 55 SR 60	247	118	156				290	139	156	402	193	257	458	220	273	625	300	415	792	380	557
	MVR 55 SR 80	329	158	208							333	160	159	387	186	208	549	264	354	712	342	501

MVR SERIES - HOW TO ORDER

Material Spec :

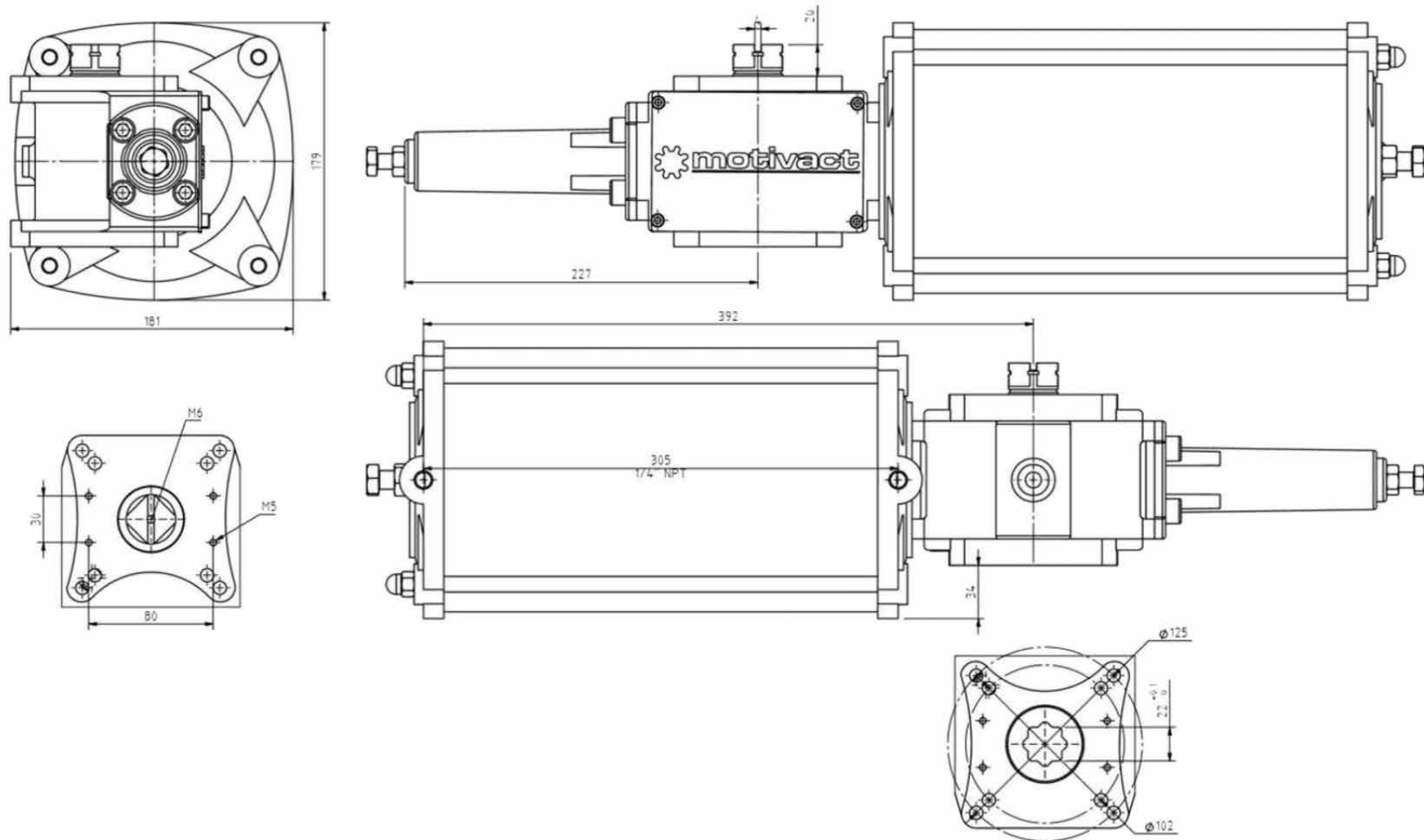
Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0
↓				↓				↓				↓			↓	
MODEL				SIZE				TRIM				ACTION			RATING	
MODEL			MVR = MOTIVACT ROTARY													
SIZE			SELECT FROM CHART													
TRIM			BODY / ENDS / BARREL S = 316SS C = EPOXY STEEL PAINTED F = FRP (FIBREGLASS REINFORCED PLASTIC)													
ACTION			STC = SPRING TO CLOSE STO = SPRING TO OPEN DA = DOUBLE ACTING													
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI													

** nb : models 004 - 110 only available in SSS trim as standard unless special order

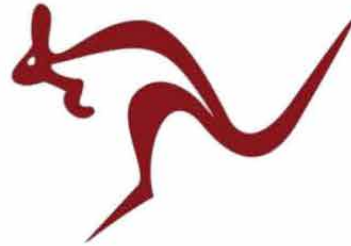


Pneumatic Power unit Dimensions



MVR 55

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 76

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

•All Torques are in Nm

- Media should be clean and suitable for selected seal material.

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 76- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Bre k	Run	End	Bre k	Run	End	Bre k	Run	End	Bre k	Run	End	Bre k	Run	End	Bre k	Run	End
	MVR 76 DA	0	0	0	414	290	414	621	435	621	753	527	753	828	580	828	1054	738	1054	1341	939	1341
MVR 76 SR 40	229	110	145	269	129	145	468	225	325	622	298	464	698	335	533	926	446	741	1158	556	948	
MVR 76 SR 60	344	165	218				404	194	218	559	268	358	636	305	381	869	417	578	1102	529	776	
MVR 76 SR 80	458	220	302							470	226	222	538	258	290	742	356	494	945	454	698	

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

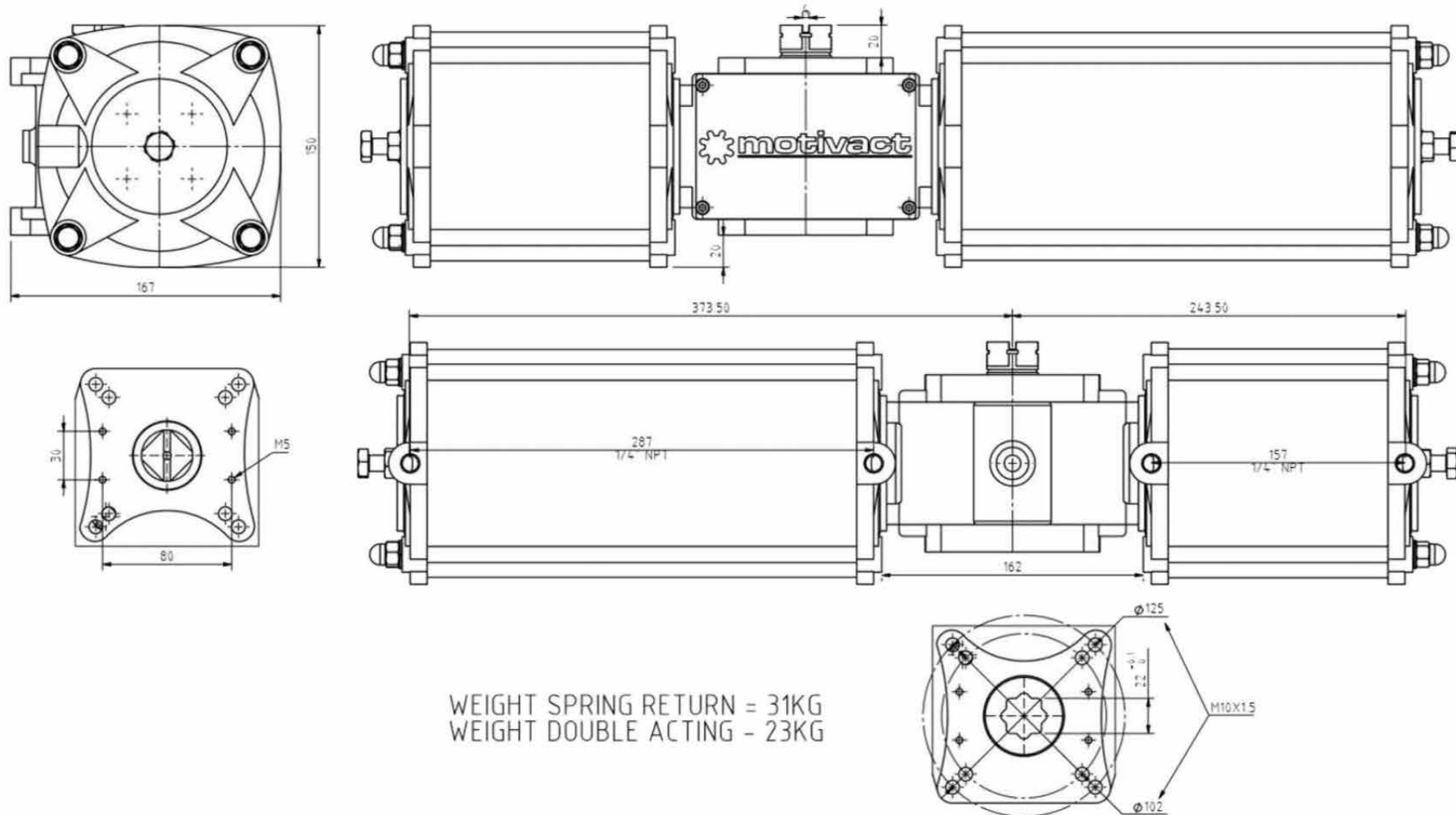
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0		
↓				↓				↓				↓				↓		
MODEL				SIZE				TRIM				ACTION				RATING		
MODEL			MVR = MOTIVACT ROTARY															
SIZE			SELECT FROM CHART															
TRIM			BODY / ENDS / BARREL															
			S = 316SS															
			C = EPOXY STEEL PAINTED															
			F = FRP (FIBREGLASS REINFORCED PLASTIC)															
ACTION			STC = SPRING TO CLOSE															
			STO = SPRING TO OPEN															
			DA = DOUBLE ACTING															
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI															

** nb : models 004 - 110 only available in SSS trim as standard unless special order

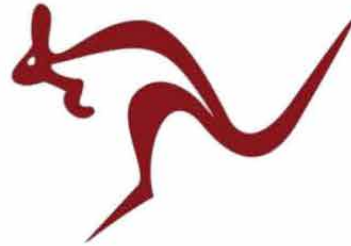


Pneumatic Power unit Dimensions



MVR 76

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged 316SS Gearbox
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- PTFE® Bearing material
- NAMUR VDI/VDE drive
- CG SS piston Rod
- Australian manufactured



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.

Available in Double acting or Spring return.
Can be used hydraulically up to max design pressure

FULL 316SS design for severe Service applications



MVR 110

Technical specification :

- Pressure rating : 30psi to 120psi (STD)
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° +/- 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

*All Torques are in Nm

• Media should be clean and suitable for selected seal material.

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 110- torque	Actuator Model	Spring Torque (Nm)			Air Torque (Nm) @ Stated Supply Pressure																	
					2.7 Barg.(40psi)			4.0 Barg. (60psi)			5.0 Barg.(70psi)			5.5 Barg.(80psi)			7.0 Barg.(100psi)			8.5 Barg.(120psi)		
		Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
	MVR 110 DA	0	0	0	595	417	595	893	625	893	1082	757	1082	1190	833	1190	1515	1060	1515	1928	1345	1928
	MVR 110 SR 40	403	189	208	343	153	135	673	323	466	894	429	665	1004	482	764	1335	641	1062	1665	799	1360
MVR 110 SR 60	493	237	312				581	279	312	804	386	513	915	439	546	1250	600	829	1585	761	1113	
MVR 110 SR 80	657	315	416							666	320	318	774	372	416	1099	527	709	1423	683	1001	

Material Spec :

Body	316SS
Ends	316SS
Barrel	316SS
Piston	316SS
Output Shaft	17-4ph SS
Yoke	17-4ph SS
Drive Pin	17-4ph SS
Piston Rod	316SS
Tie Rods	316SS
Fasteners	316SS
Bushes	GF TEFLON
Seals	Nitrile
Indicator	Acetal

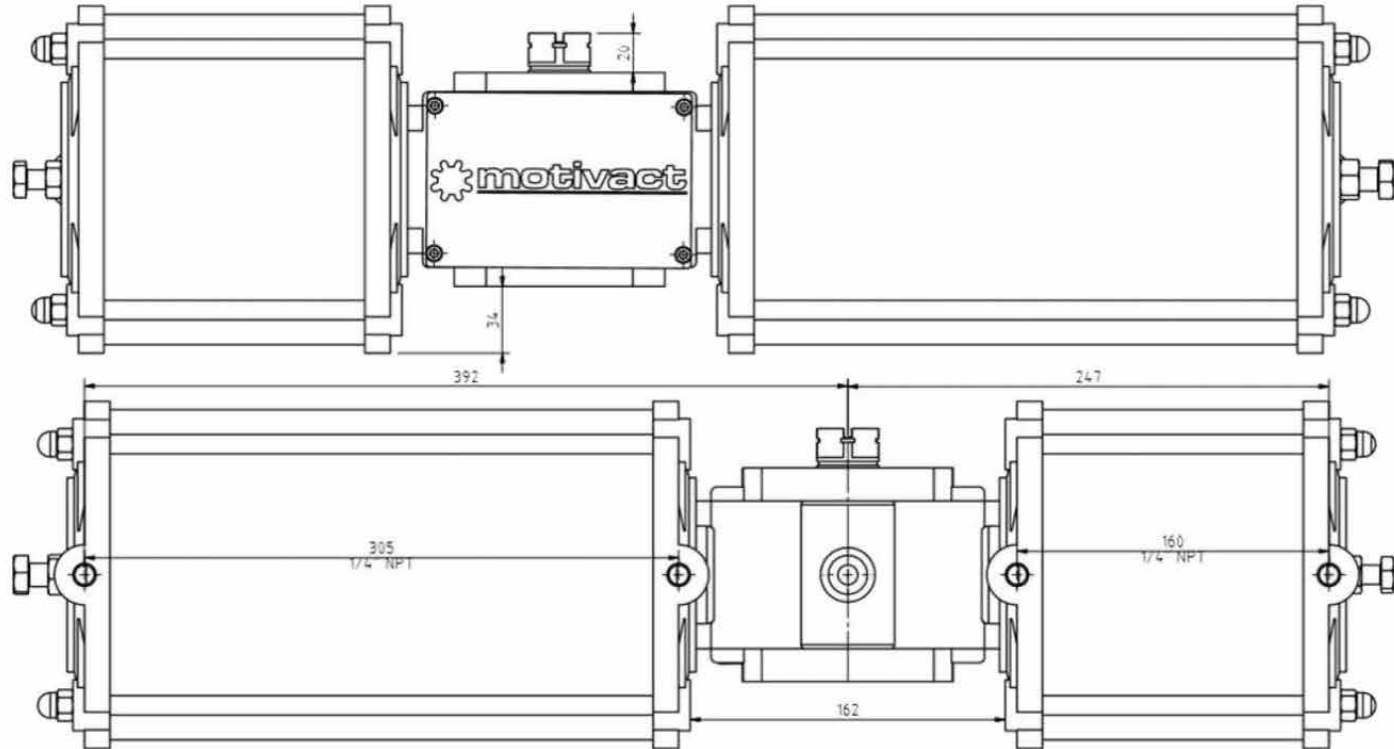
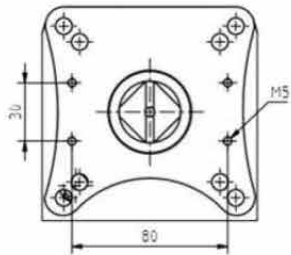
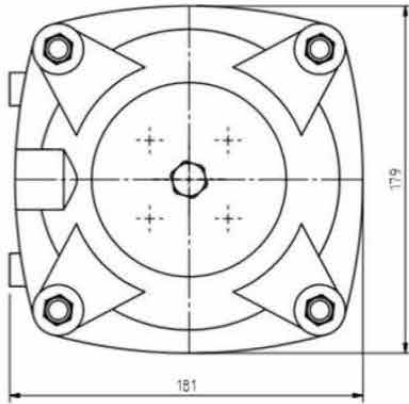
MVR SERIES - HOW TO ORDER

M	V	R	-	0	5	5	-	S	S	S	S	T	C	0	8	0		
↓				↓				↓				↓				↓		
MODEL				SIZE				TRIM				ACTION				RATING		
MODEL			MVR = MOTIVACT ROTARY															
SIZE			SELECT FROM CHART															
TRIM			BODY / ENDS / BARREL															
			S = 316SS															
			C = EPOXY STEEL PAINTED															
			F = FRP (FIBREGLASS REINFORCED PLASTIC)															
ACTION			STC = SPRING TO CLOSE															
			STO = SPRING TO OPEN															
			DA = DOUBLE ACTING															
RATING			SPRING SET RATING 040 / 060 / 080 - IN PSI															

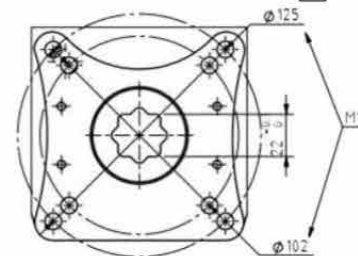
** nb : models 004 - 110 only available in SSS trim as standard unless special order



Pneumatic Power unit Dimensions



WEIGHT SPRING RETURN - 35KG
WEIGHT DOUBLE ACTING - 29KG



MVR 110

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged Gearbox – Top entry design
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- Bronze Filled PTFE® Bearing material
- Adjustable NAMUR drive
- CG SS piston Rod
- PEEK® guided Torsion Bar



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.



High Pressure Hydraulic designs.
Available in Double acting or Spring return.



FULL 316SS design available
For severe service.



MVR 160

Technical specification :

- Pressure rating : 30psi to 120psi (STD) – 2500psi Hydraulic
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)



How To order

	Model	series	Trim	Seal	Action	Air supply
MVR	160	10	CCF	N	STC	80

Description	Code
Model :	160
Series :	8 10 12
Trim :	CCF - Steel Body / Steel Piston / FRP Barrel SCF - 316SS Body / Steel Piston / FRP Barrel SSF - 316SS Body / 316SS Piston / FRP Barrel SSS - 316SS Body / 316SS Piston / 316SS Barrel
Seal :	N - Nitrile V - Viton
Action :	DA - Double acting STC - Spring to close STO - Spring to open
Air Supply :	80 - 80 psi supply 60 - 60 psi supply 40 - 40 psi supply

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 160-8 torque

TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	249	472	259	259	722	510
60	374	709	388	389	1082	765
80	498	945	517	519	1443	1020

MVR 160-10 torque

TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	374	683	370	364	1057	747
60	561	1025	555	546	1586	1121
80	748	1367	740	728	2115	1494

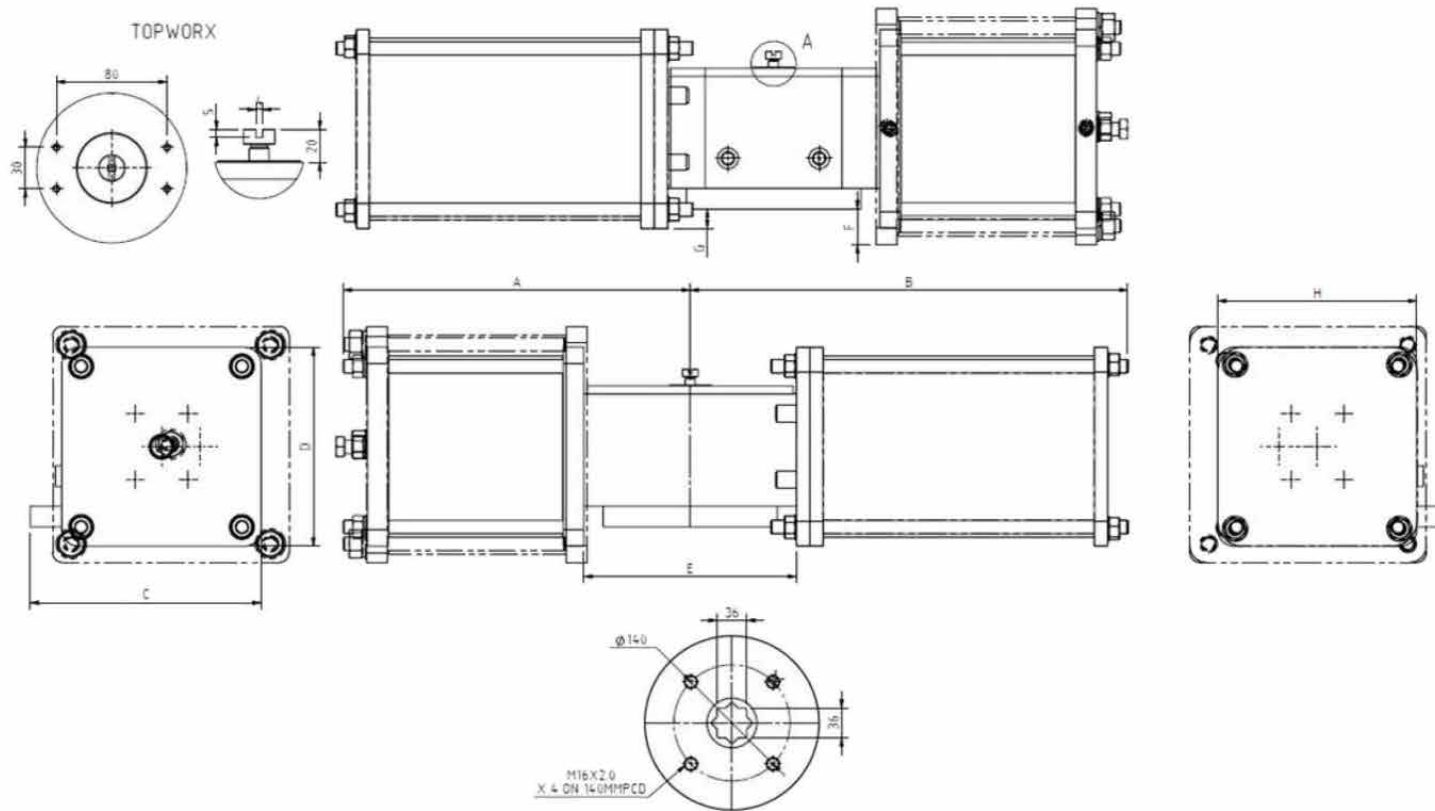
MVR 160-HP torque

TORQUE CHART				
HYDSUPPLY (psi)		DOUBLE ACTING		
		BREAK	RUN	
900	160HP30	2379	1681	
1500	160HP25	2617	1121	
2500	160HP20	2581	1824	



MVR 160

Pneumatic Power unit Dimensions



MODEL	A	B	C	D	E	F	G	H	I	PORT	WEIGHT Kg
MVR 160-8 SR	446.5	616.5	317.5	285	285	50	50	286	279	3/8 NPT	142
MVR 160-8 DA	446.5	158	317.5	285	285	50	50	286	279	3/8 NPT	102
MVR 160-10 SR	446.5	616.5	347	344	285	79.5	50	286	279	3/8 NPT	162
MVR 160-10 DA	446.5	158	347	344	285	79.5	50	286	279	3/8 NPT	121

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged Gearbox – Top entry design
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- Bronze Filled PTFE® Bearing material
- Adjustable NAMUR drive
- CG SS piston Rod
- PEEK® guided Torsion Bar



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline.



High Pressure Hydraulic designs.
Available in Double acting or Spring return.



FULL 316SS design available
For severe service.



MVR 340

Technical specification :

- Pressure rating : 30psi to 120psi (STD) – 2500psi Hydraulic
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)



How To order

	Model	series	Trim	Seal	Action	Air supply
MVR	340	10	CCF	N	STC	80

Description	Code
Model :	340
Series :	10 - see torque info 12 - see torque info
Trim :	CCF - Steel Body / Steel Piston / FRP Barrel SCF - 316SS Body / Steel Piston / FRP Barrel SSF - 316SS Body / 316SS Piston / FRP Barrel SSS - 316SS Body / 316SS Piston / 316SS Barrel
Seal :	N - Nitrile V - Viton
Action :	DA - Double acting STC - Spring to close STO - Spring to open
Air Supply :	80 - 80 psi supply 60 - 60 psi supply 40 - 40 psi supply

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 340-10 torque

TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	490	916	497	503	1407	985
60	736	1375	745	754	2110	1477
80	981	1833	1016	1070	2813	1969

MVR 340-12 torque

TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	730	1352	731	737	2082	1457
60	1095	2028	1097	1105	3123	2186
80	1460	2704	1496	1569	4164	2915

MVR 340-HP torque

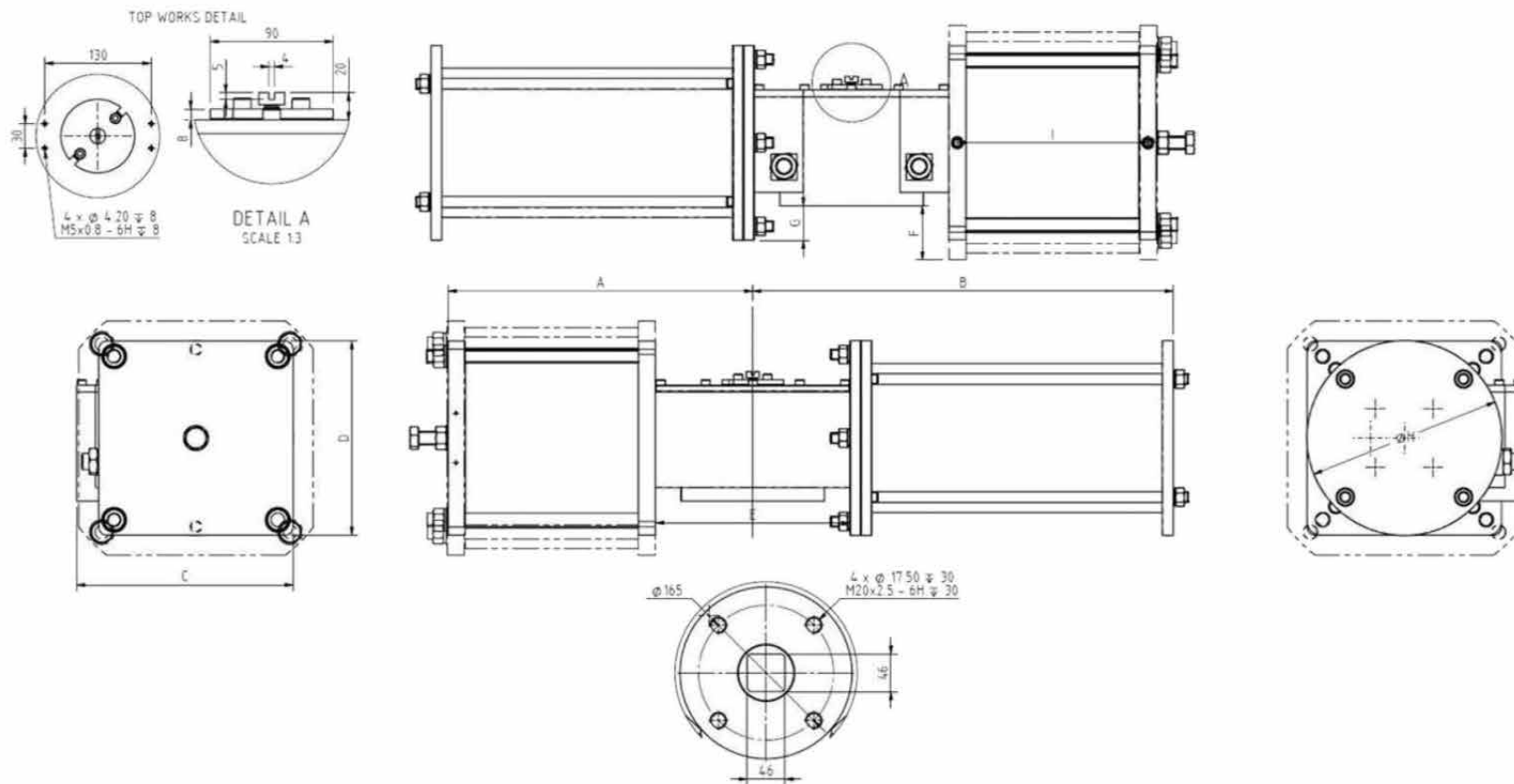
DOUBLE ACTING			
Hydraulic SUPPLY (psi)	MODEL	BREAK	RUN
900	340HP4-900	4906	3434
1500	340HP25-1500	4007	2805
2500	340HP2-2500	3517	2462

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.



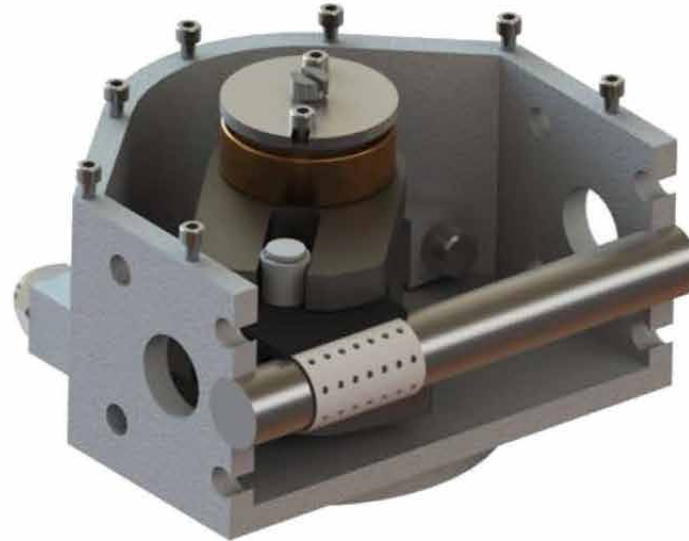
MVR 340

Pneumatic Power unit Dimensions



MODEL	A	B	C	D	E	F	G	H	I	PORT	WEIGHT Kg
MVR 340-10 SR	446.5	616.5	317.5	285	285	50	50	286	279	3/8 NPT	142
MVR 340-10 DA	446.5	158	317.5	285	285	50	50	286	279	3/8 NPT	102
MVR 340-12 SR	446.5	616.5	347	344	285	79.5	50	286	279	3/8 NPT	162
MVR 340-12 DA	446.5	158	347	344	285	79.5	50	286	279	3/8 NPT	121

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



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- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- Bronze Filled PTFE® Bearing material
- Adjustable NAMUR drive
- CG SS piston Rod
- PEEK® guided Torsion Bar



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline. Capsule is Sealed from Air and Atmosphere So no closed loop breathing required



High Pressure Hydraulic designs. Available in Double acting or Spring return.



FULL 316SS design available For severe service.

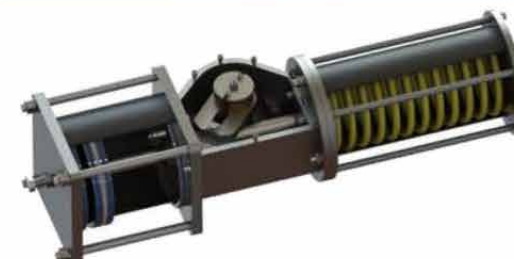


MVR 800

Technical specification :

- Pressure rating : 30psi to 120psi (STD) – 2500psi Hydraulic
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.



How To order

	Model	series	Trim	Seal	Action	Air supply
MVR	800	14	CCF	N	STC	80

Description	Code
Model :	800
Series :	12 14 16
Trim :	CCF - Steel Body / Steel Piston / FRP Barrel CCS - Steel Body / Steel Piston / 316SS Barrel SCF - 316SS Body / Steel Piston / FRP Barrel SSF - 316SS Body / 316SS Piston / FRP Barrel SSS - 316SS Body / 316SS Piston / 316SS Barrel
Seal :	N - Nitrile V - Viton
Action :	DA - Double acting STC - Spring to close STO - Spring to open
Air Supply :	80 - 80 psi supply 60 - 60 psi supply 40 - 40 psi supply

MVR 800-12 torque

TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	1157	2145	1195	1246	3302	2328
60	1736	3217	1793	1869	4953	3492
80	2314	4290	2391	2491	6604	4656

MVR 800-14 torque

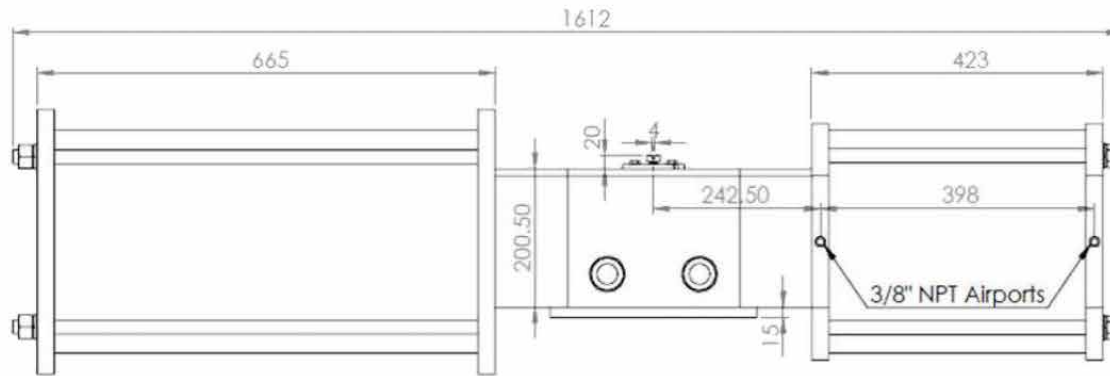
TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	1513	2792	1555	1617	4306	3036
60	2270	4189	2332	2425	6458	4554
80	3026	5585	3109	3233	8611	6072

MVR 800-16 torque

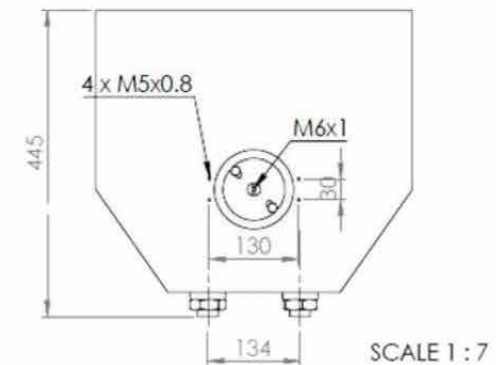
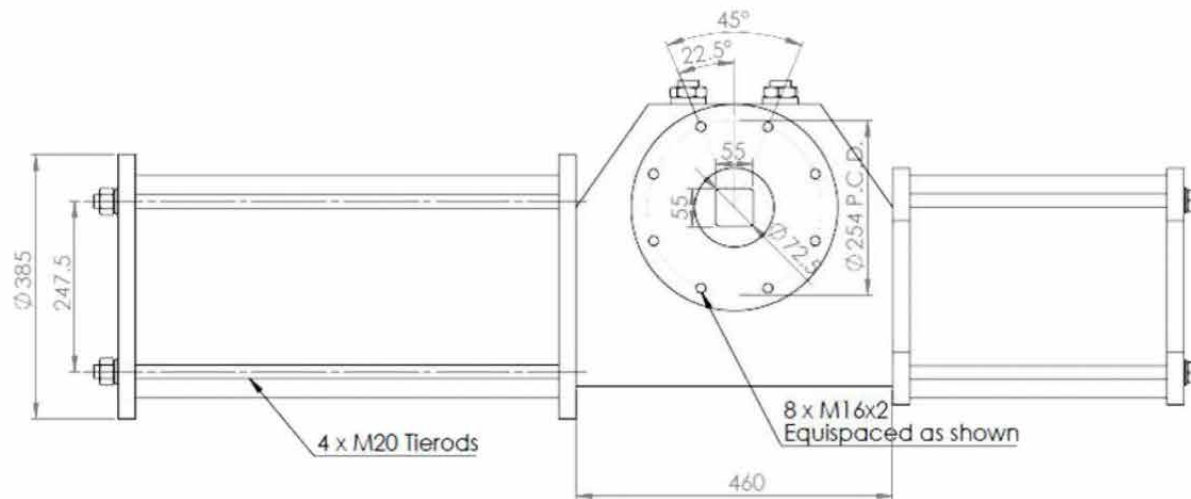
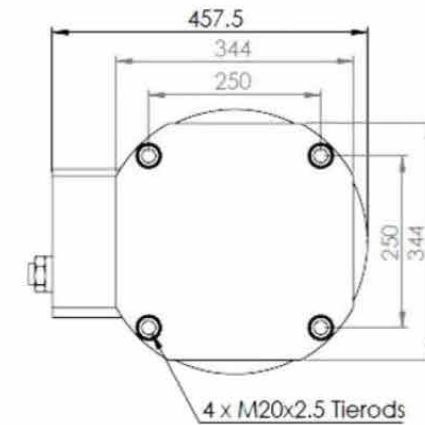
TORQUE CHART						
AIR SUPPLY (psi)	SPRING ETC (Nm)	AIR STROKE			DOUBLE ACTING	
		BTO	RTO	ETO	BREAK	RUN
40	1958	3622	2017	2100	5580	3935
60	2937	5433	3026	3150	8370	5902
80	3917	7244	4035	4200	11160	7869



MVR 800-12 Pneumatic Power unit Dimensions



SCALE 1 : 7



SCALE 1 : 7

SCALE 1 : 7

$\phi 385$

247.5

460

$\phi 254 \text{ P.C.D.}$

$\phi 72.5$

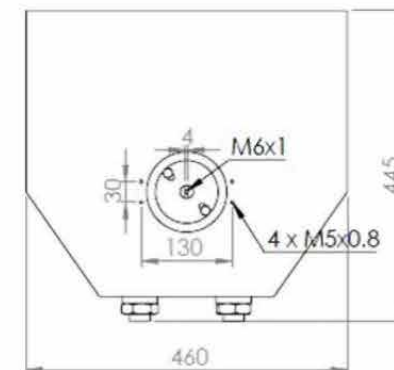
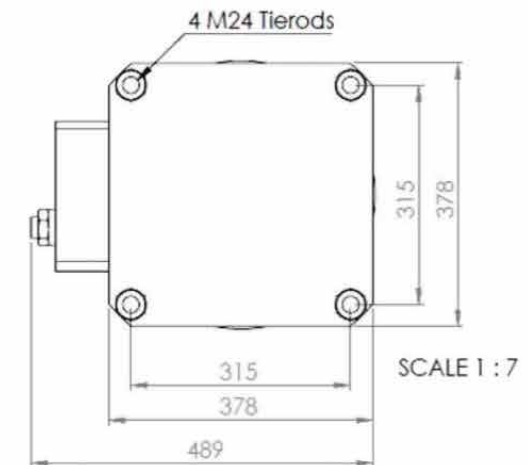
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25

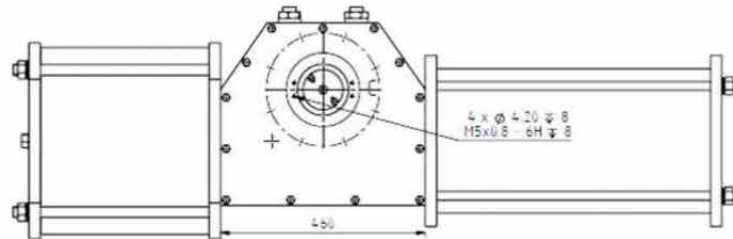
45°

22.50°

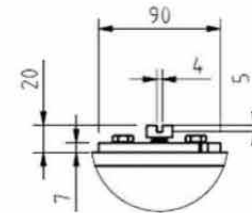
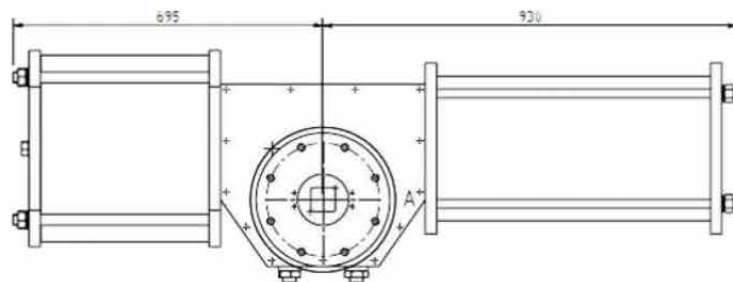
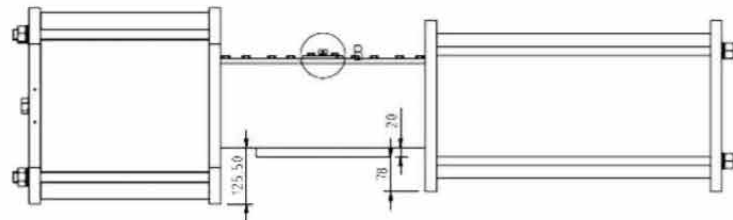
8 x M16x2
24mm Deep
Equispaced as shown



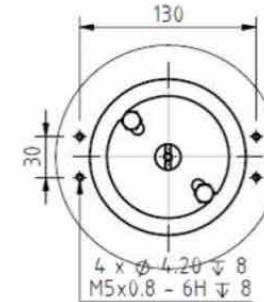
MVR 800-16 Pneumatic Power unit Dimensions



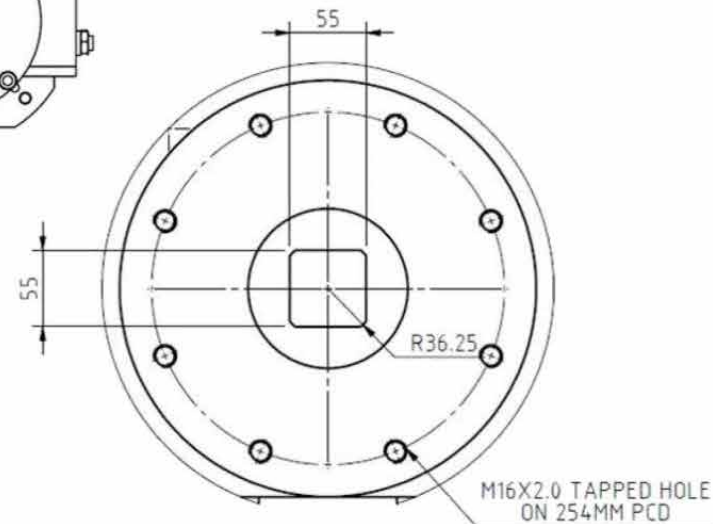
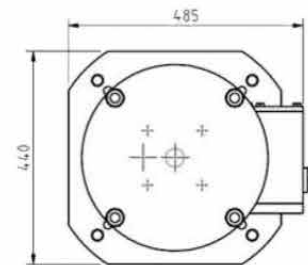
Drawing View 2



DETAIL B
SCALE 1:5

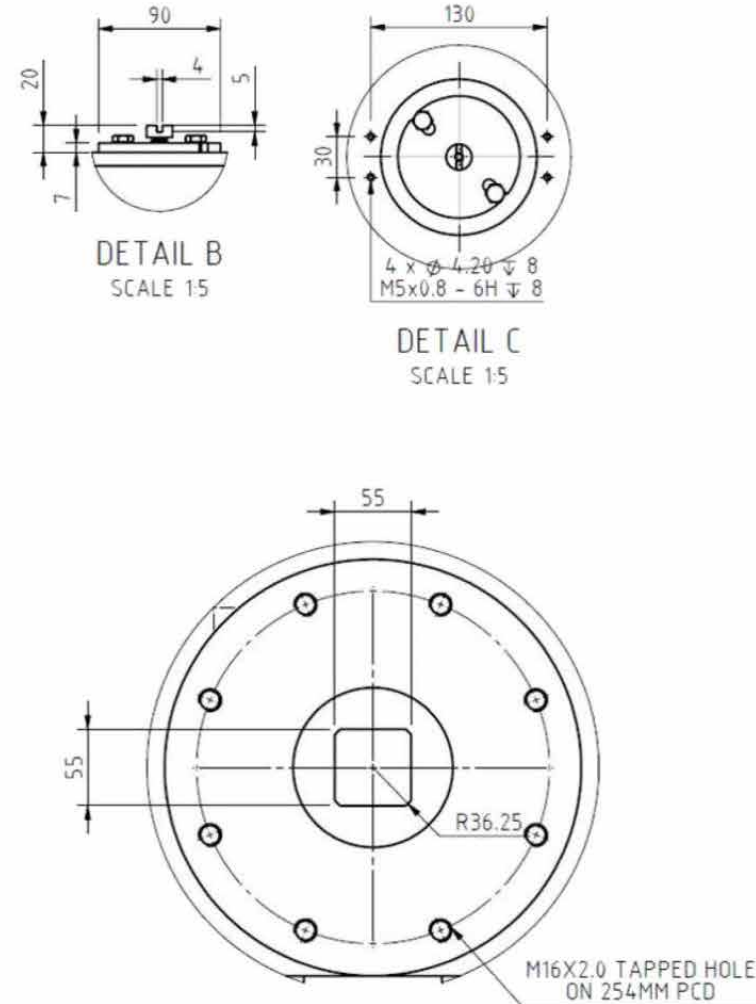


DETAIL C
SCALE 1:5



MVR 800

MVR 800HP Hydraulic Power unit Dimensions



MVR 800

Motivact High Performance scotch yoke actuators for Robust and reliable valve automation.



- Rugged Gearbox – Top entry design
- 17-4phSS High strength Yoke
- 17-4phSS High strength Drive pin
- Bronze Filled PTFE® Bearing material
- Adjustable NAMUR drive
- CG SS piston Rod
- PEEK® guided Torsion Bar



Modular Spring cartridge can be interchanged and replaced without removing from valve or pipeline. Capsule is Sealed from Air and Atmosphere So no closed loop breathing required



High Pressure Hydraulic designs. Available in Double acting or Spring return.



FULL 316SS design available For severe service.



MVR 1600

Technical specification :

- Pressure rating : 30psi to 120psi (STD) – 2500psi Hydraulic
- Temperature rating : -20°C + 110°C (STD) (+ 200°C Viton® opt) *
- Rotation 90° -/+ 5°
- Direction CW (clockwise to close) CCW optional
- ISO 5211 drive connection
- NAMUR VDI/VDE Accessory drive (20-30mm)

- All Torques are in Nm
- Media should be clean and suitable for selected seal material.



How To order

	Model	series	Trim	Seal	Action	Air supply
MVR	1600	14	CCF	N	STC	80

Description	Code
Model :	1600
Series :	14 16 18
Trim :	CCF - Steel Body / Steel Piston / FRP Barrel CCS - Steel Body / Steel Piston / 316SS Barrel SCF - 316SS Body / Steel Piston / FRP Barrel SSF - 316SS Body / 316SS Piston / FRP Barrel SSS - 316SS Body / 316SS Piston / 316SS Barrel
Seal :	N - Nitrile V - Viton
Action :	DA - Double acting STC - Spring to close STO - Spring to open
Air Supply :	80 - 80 psi supply 60 - 60 psi supply 40 - 40 psi supply

Motivact Pty Ltd reserves the right to change this information without notice.
 Customer should allow for Valve safety factor and operating conditions when sizing.
 * More sealing / temperature options available on request

MVR 1600-14 torque

TORQUE CHART						
		AIR STROKE			DOUBLE ACTING	
AIR SUPPLY	SPRING ETC	BTO	RTO	ETO	BREAK	RUN
(psi)	(Nm)					
40	2381	4447	2431	2426	6828	4830
60	3596	6646	3622	3594	10242	7244
80	4770	8886	4853	4837	13656	9659

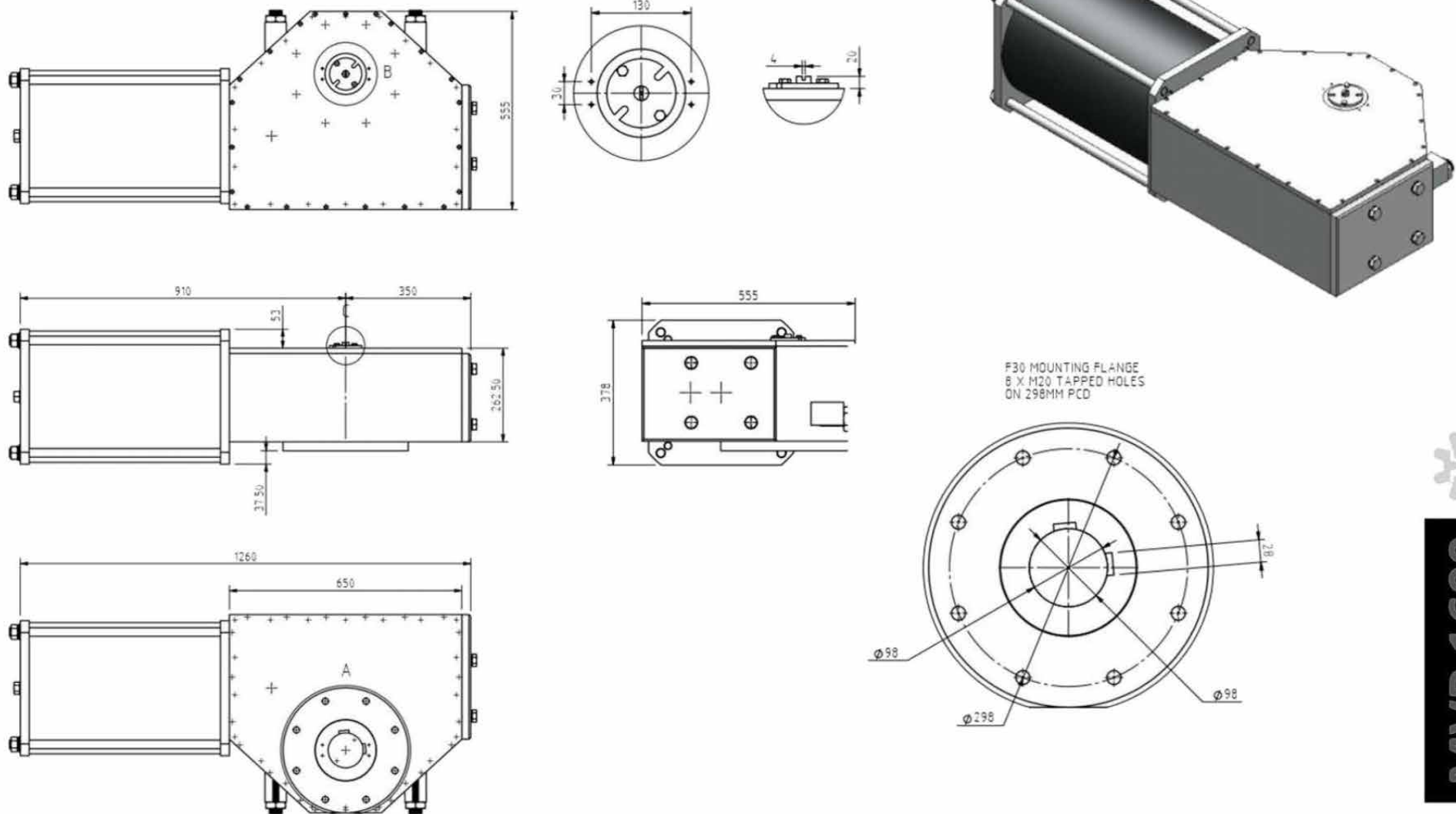
MVR 1600-16 torque

TORQUE CHART						
		AIR STROKE			DOUBLE ACTING	
AIR SUPPLY	SPRING ETC	BTO	RTO	ETO	BREAK	RUN
(psi)	(Nm)					
40	3097	5746	3135	3118	8843	6255
60	4660	8605	4687	4650	13265	9382
80	6195	11491	6268	6233	17686	12510

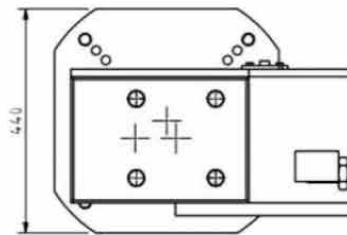
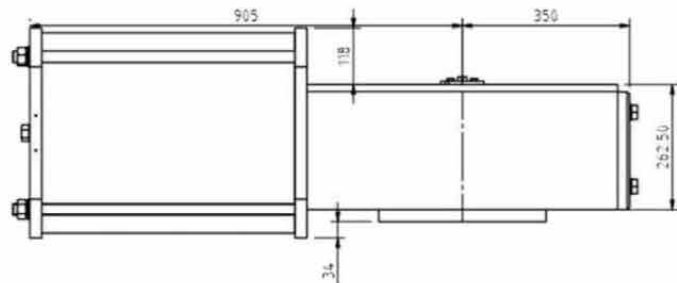
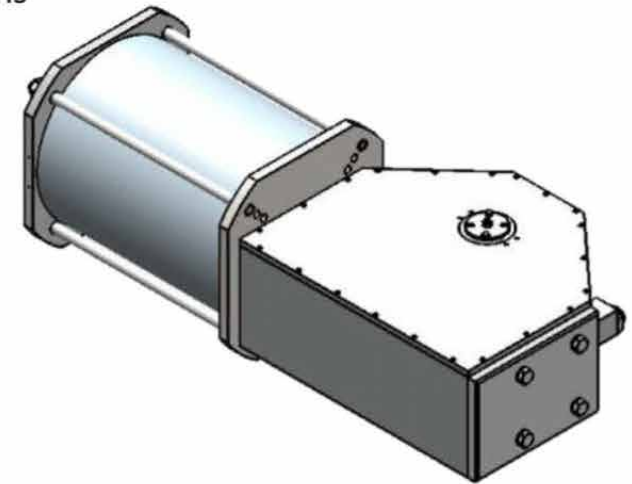
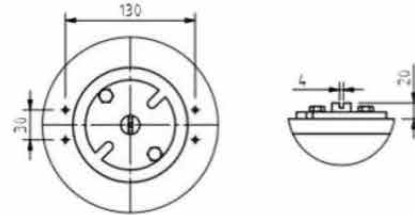
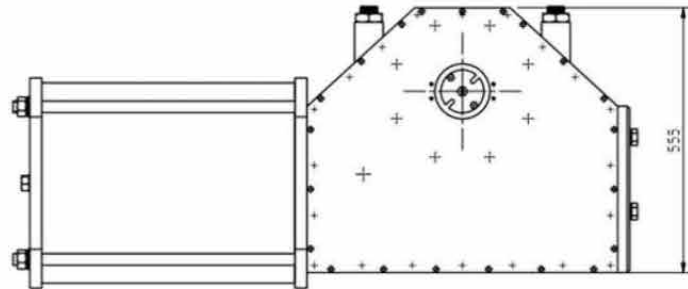
MVR 1600-18 torque

TORQUE CHART						
		AIR STROKE			DOUBLE ACTING	
AIR SUPPLY	SPRING ETC	BTO	RTO	ETO	BREAK	RUN
(psi)	(Nm)					
40	3667	6775	3691	3662	10442	7386
60	5483	10180	5555	5526	15663	11078
80	7334	13550	7382	7325	20884	14771

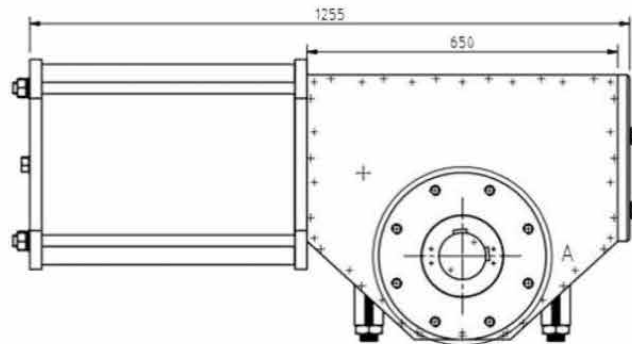
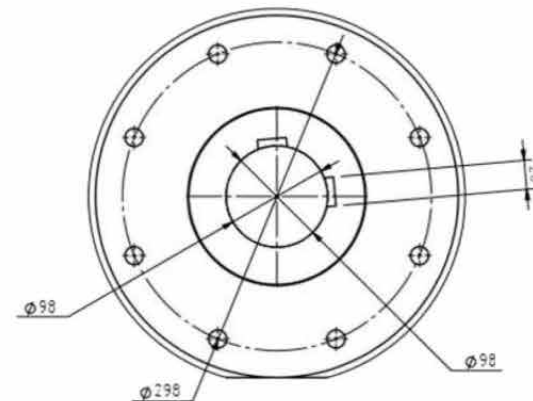
MVR 1600-14-DA Pneumatic Power unit Dimension



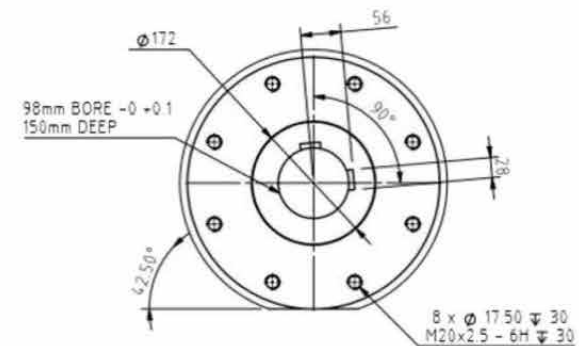
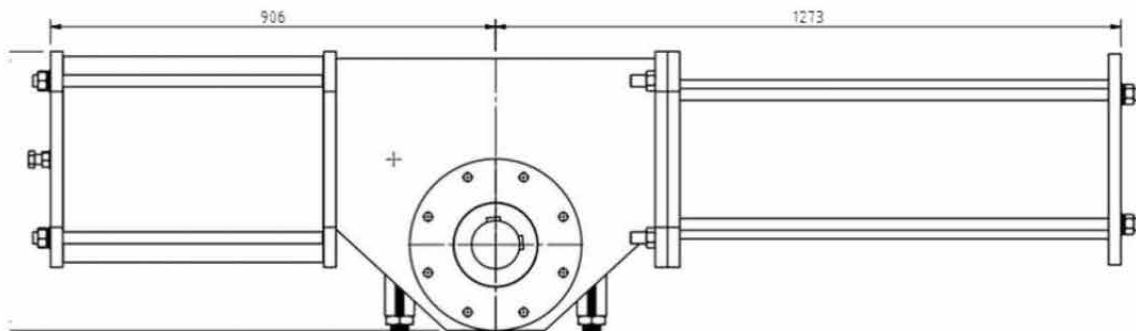
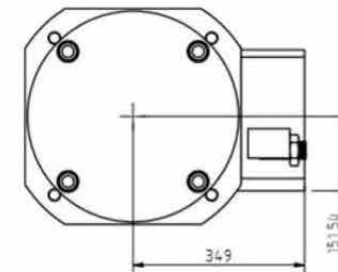
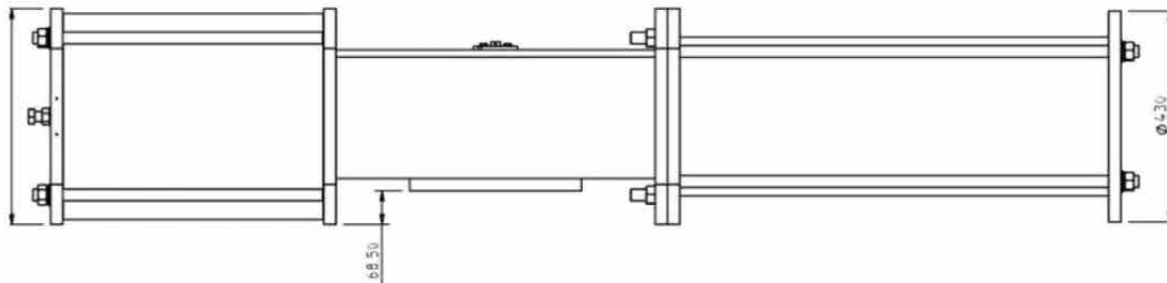
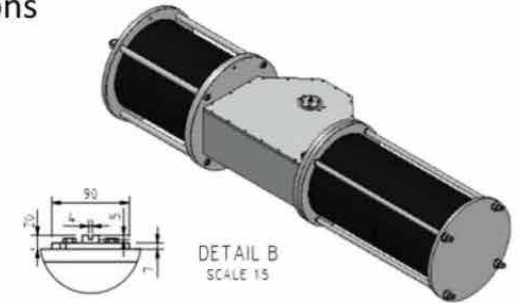
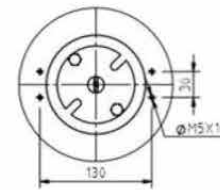
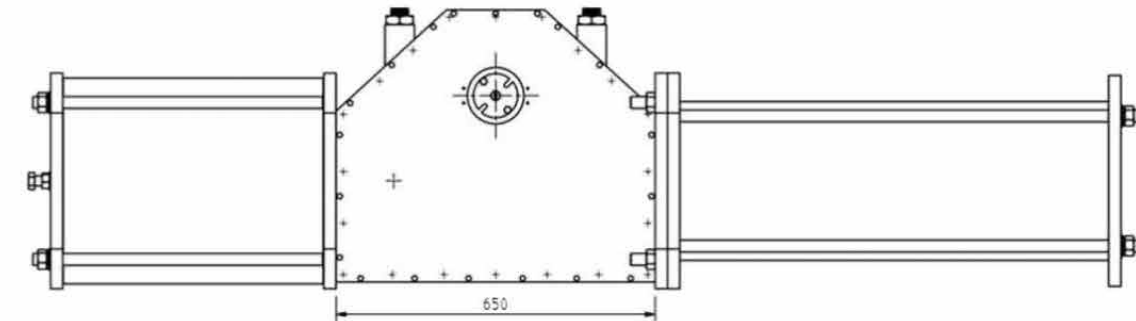
MVR 1600-16-DA Pneumatic Power unit Dimensions



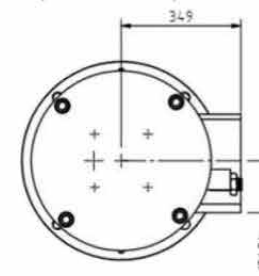
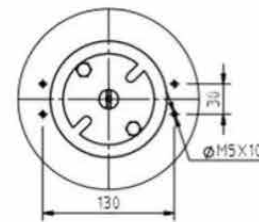
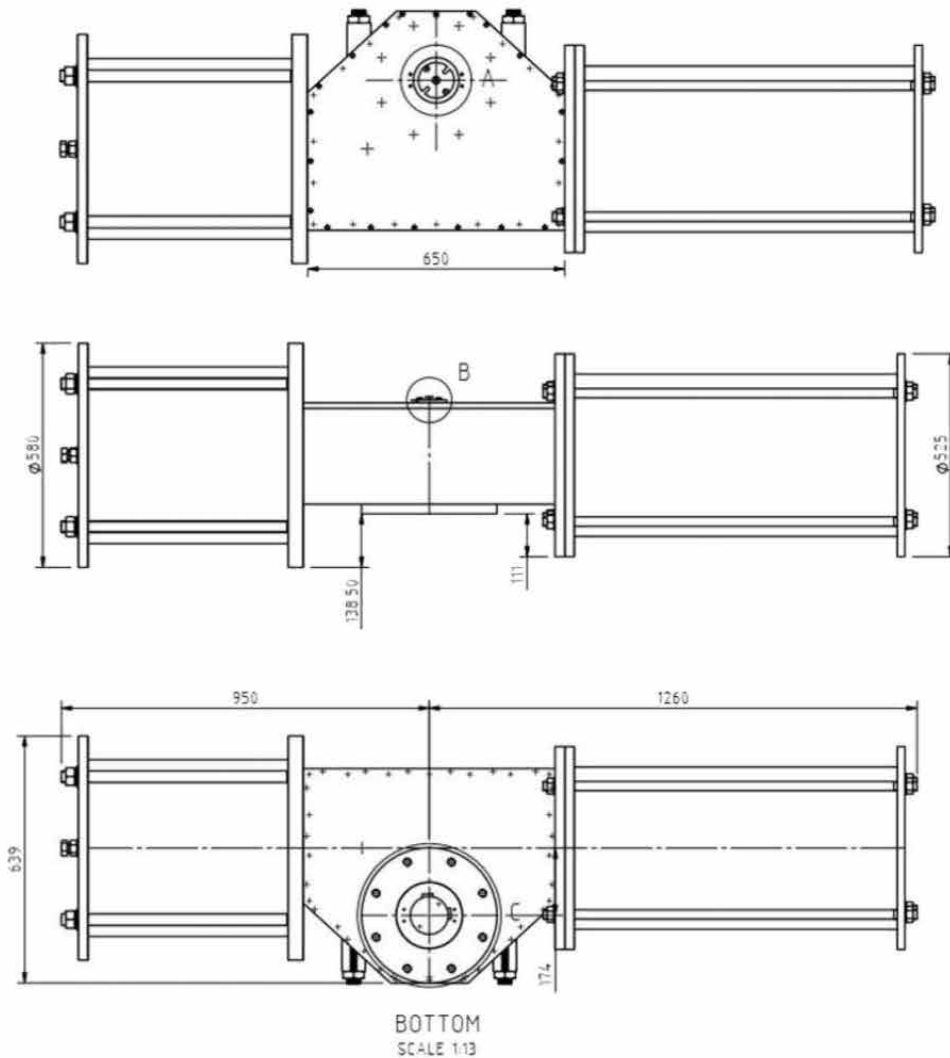
F30 MOUNTING FLANGE
6 X M20 TAPPED HOLES
ON 298MM PCD



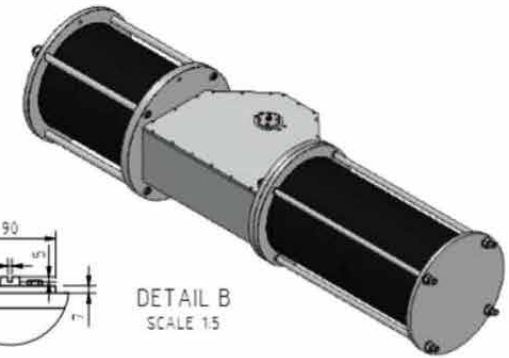
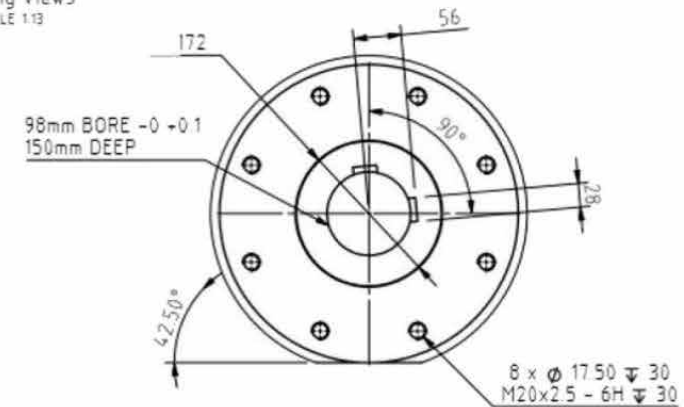
MVR 1600-16-Spring return Pneumatic Power unit Dimensions



MVR 1600-18-spring return Power unit Dimensions

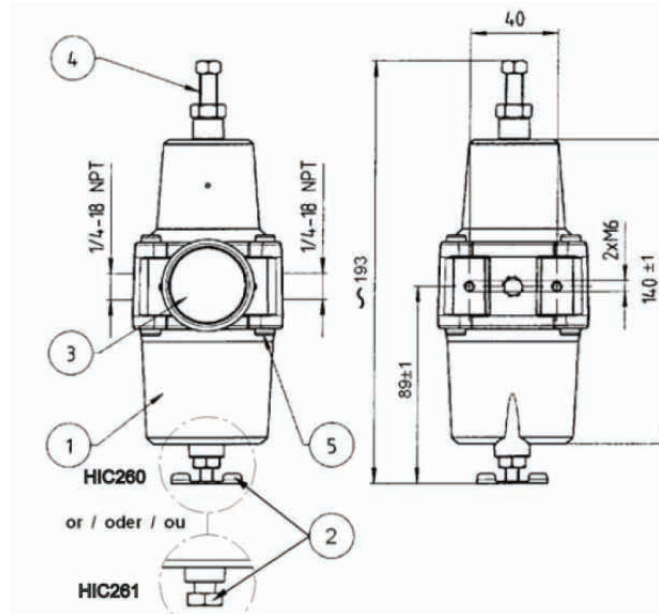


Drawing View5
SCALE 1:13



MVR 1600

316SS - FILTER REG



Category	HIC-26		
	A	B	C
Max Supply Pressure	10kgf/cm ² (150psi)		
Max Output Pressure	2.5kgf/cm ²	4kgf/cm ²	6kgf/cm ²
Air Connection	NPT(PT) 1/4		
Gauge Connection	NPT(PT) 1/4		
Ambient Temperature	-5~60℃ (Standard), -20~120℃ (High Temp.), -40~70℃ (Low Temp.)		
Min Filtering Size	5 micron		
Material	Aluminum Housing/Stainless Steel 316		
Weight	0.5/1.8 kg		



316SS FITTINGS AND ACCESSORIES

High Quality 316SS Air sets and accessories



316SS VALVE POSITION MONITOR

SUPERIOR PROTECTION
IP67 PROTECTION
EX CERTIFIED

LSB-100S-2XSPDT
LSB-107S-2XP&F 2 WIRE
LSB-109S-2XP&F 3 WIRE
LSB-111S-2XNJ2-V3-N Exd IIC T6



THE LSB-100S SERIES IS THE PERFECT COMPLIMENT TO YOUR
MOTIVACT ROTARY OR "ROTALIN" LINEAR CYLINDER.

 Housing, cover and brackets are all made of press-formed stainless steel to secure long life, superb corrosion resistance and durability.

 Economical price.

 Permanent laser marking on the nameplate.

 Weatherproof IP67
Option: watertight IP68 (2 m 72 hr)

 Light weight and robust design.

- Visual position indicator with tight indicator window sealing.
- Spring loaded splined cam: easy setting without tools.
- Captive cover bolts: no need to worry about losing them when the cover is open.
- NAMUR standard stainless steel shaft and bracket.

etc



Design Construction

Window / Indicator
PC / ABS

Nameplate
Laser marking on the cover

Terminal block
Standard: 8P
Option: 12P

Cam
ABS

Cable Entries
Standard: 2 x NPT1/2"
Option: 2 x PF1/2", M20, PG13.5

Bracket set
Stainless steel

Captive cover bolts
Stainless steel

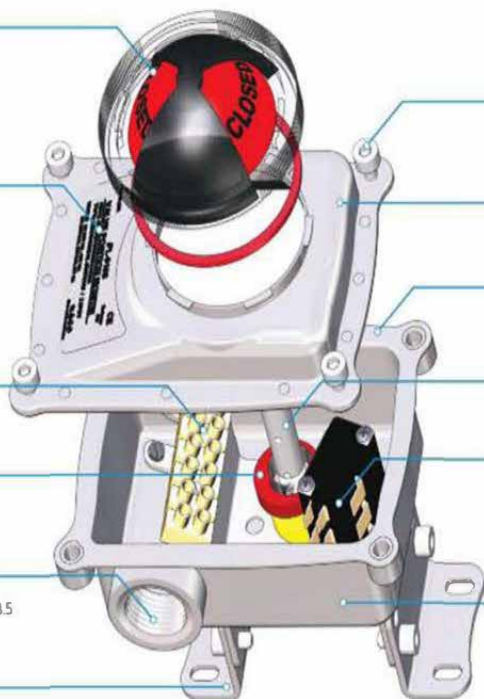
Cover
Stainless steel

Pad
Standard: NBR
Option: Viton, Silicon

Shaft
Stainless steel

Switch
Standard: mechanical switch x2
Option: mechanical switch x 3-4
Proximity sensor x2
Reed type proximity sensor x2

Body
Stainless steel



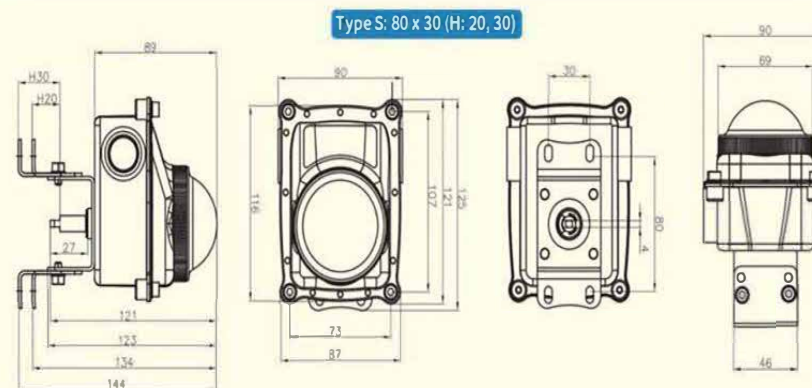
motivact HIGH PERFORMANCE ACTUATION

Specification

	Standard	Option
Enclosure	Weatherproof IP67 - IEC 60529	Watertight IP68 (2 m 72 hr) - IEC 60529
Material	304 stainless steel	316L stainless steel
Ambient temperature	-20 to +80 °C	-50 to +80 °C (low temp.) -40 to +110 °C (high temp.)
Cable entries	2 x NPT1/2"	2 x PF1/2", 2 x M20, 2 x PG13.5
Position indicator	Open-yellow, close-red	Three positions (T-port, L-port)
Terminal block	8 p (0.08 - 2.5 mm ²)	12 p (0.08 - 2.5 mm ²)
Coating		Anti-corrosion coating
Bracket	Type S: 80 x 30 (H: 20, 30)	Type O: 80 x 30 (H: 20, 30) & 130 x 30 (H: 30, 50)

Dimension

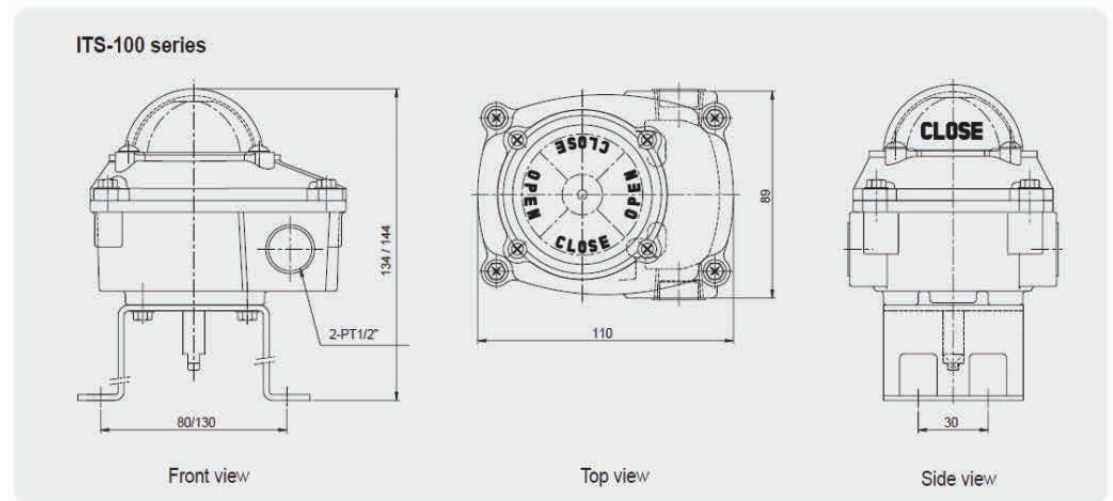
Unit: mm



LSB-100 -2XSPDT MECH
LSB-107 -2XP&F 2 WIRE
LSB-109 -2XP&F 3 WIRE
LSB-108 - PROX 3 WIRE NPN/PNP



Easy adjustable
push-lock cams
for Switch setting

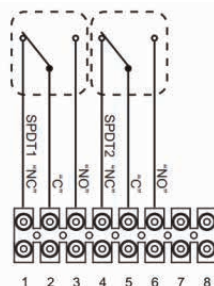


Open / closed position feedback for quarter turn actuators.
Mechanical and proximity options
IP67

Mechanical Switches



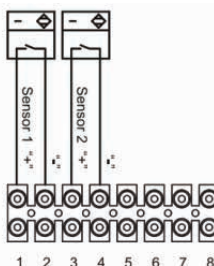
Mechanical Switches
/
Magnetic Sensors
(SPDT)



Proximity Sensors



Proximity Sensors
(P&F)



Switch Box Type	Body Material	Switches / Sensors	Position Transmitter	Explosion Proof	Beacon / Indicator	Electrical Connections	Number of Electrical Connections	Feedback Shaft	Mounting Bracket
LSB-1 Weatherproof type	0 Aluminum die-cast	Mechanical switches 0 (2) SPDT 2 (4) SPDT P&F Sensors 6 (2) NJ2-V3-N Honeywell switches G (2) SPDT	0 None	7 Weatherproof IP67 8 Weatherproof IP68	N None A Beacon Indicator 90° (Open / Close) D Other flow direction Indicator (L or T port)	A PF 3/4 B NPT 3/4 C PF 1/2 D NPT 1/2 E M20 x 1.5	2 pcs 2 pcs	Rotary type N NAMUR shaft F Fork lever Linear type A Stroke 10 ~ 40mm B Stroke 10 ~ 80mm C Stroke 80 ~ 150mm D Stroke 80 ~ 200mm	Rotary type N None 1 30x80 x20(H) 2 30x80 x30(H) 3 30x130 x30(H) 4 30x130 x50(H) M Multi-size Bracket
LSB-3 Explosion-proof type	0 Aluminum die-cast 1 Stainless steel 316 2 Stainless steel 316L (On request)	Mechanical switches 0 (2) SPDT 2 (4) SPDT 3 (2) DPDT P&F sensors 4 (2) NJ2-V3-N 5 (4) NJ2-V3-N 6 (2) NJ2-12GK-SN 7 (2) NBB3-V3-Z4 9 (2) NBB2-V3-E2 Autonics sensors 8 (2) PSN17-5D PNP or NPN Magnetic sensors A (2) XT-90 B (4) XT-90 GO switches E (2) Model35 F (4) Model35 Honeywell switches G (2) SPDT H (4) SPDT	0 None T 4~20mA output signal	K7 KC Ex d IIC - IP67 A7 ATEX / IECEx Ex d IIC - IP67 I7 KC Ex ia IIC - IP67 K8 KC Ex d IIC - IP68 A8 ATEX / IECEx Ex d IIC - IP68 I8 KC Ex ia IIC - IP68	N None A Beacon Indicator 90° (Open / Close) B Bottom indicator 90° (Open / Close) C Beacon & bottom indicator 90° (Open / Close) D Other flow direction Indicator (L or T port)	A PF 3/4 B NPT 3/4 C PF 1/2 D NPT 1/2 E M20 x 1.5 F PF 1 G NPT 1	2 pcs 3 pcs	Stroke 10 ~ 80mm Stroke 80 ~ 150mm Stroke 80 ~ 200mm	

Open / closed position feedback for quarter turn actuators.
Mechanical and proximity options
IP67

LSB-IP SERIES LOW PROFILE SWITCH BOX

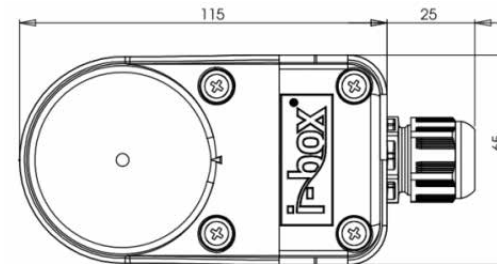
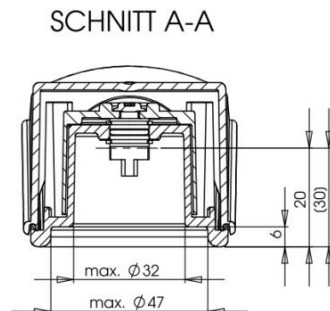
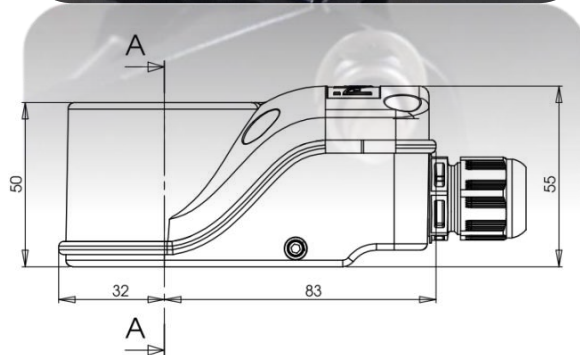


- Very compact limit switch box polyamide PA6
- Transparent polycarbonate cover with integrated large OPEN-CLOSED indicator (Optional 2D indicator for L- or T-bores)
- Direct mounting without mounting bracket on actuators according to VDI/VDE 3845:
Hole spacing: 80 x 30mm (optional: 130x30mm, 50x25mm - with IMBHV bracket)
Shaft heights: 20 or 30mm (optional: 40 and 50mm - with IMBHV bracket)
- Easy and time-saving fastening system
- Enclosure IP66 + IP67 according to DIN EN 60529 (tested by external test laboratory)
- Cable gland M20x1,5 black (for cable Ø 6-12mm)
- Sealings TPE and NBR, Screws AISI 304, Stainless steel Shaft AISI 303
- Other colours of casing available on request
- Application: Standard applications without explosive atmosphere.
1-2 mechanical switches
1-2 proximity sensors in V3 design

LSB-100-IP2M01-G (2 x CHERRY D41X SPDT GOLD CONTACT SWITCHES)

LSB-107-IP2101-9 (2 x PEPPERL & FUCHS NBB3-V3-Z4 2 WIRE Proximity)

LSB-109-IP2102-9 (2 x PEPPERL & FUCHS NBB2-V3-E2 3 WIRE Proximity)

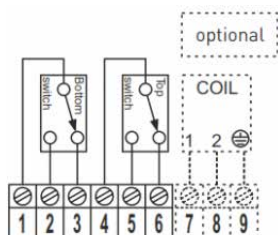


LSB-IP SERIES LOW PROFILE SWITCH BOX – WIRING DATA

LSB-100-2XD41 CHERRY



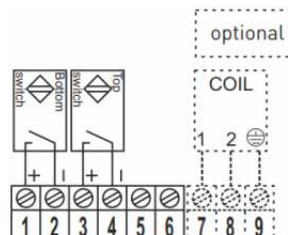
Endschalterfabrikat Producer switch	CHERRY
Endschaltertyp Switch type	D41X
Spannung Voltage	24-250V
Maximaler Strom Maximum current	AC: 250V, 0,1A DC: 24V, 0,1A
Kontakte Contacts	Gold Gold
SIL Level SIL Level	SIL 1-3 (IEC 61508:2010)
Temperatur Temperature	-25°C ... +80°C



LSB-107-NBB3-V3-Z4



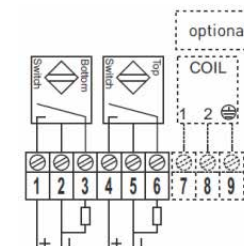
Endschalterfabrikat Producer switch	P+F
Endschaltertyp Switch type	NBB3-V3-Z4 (DC N.O.)
Spannung Voltage	5-60V DC
Stromaufnahme Current consumption	4-100 mA
Schaltfrequenz Frequency	2000 Hz
Anzeige Output indicator	LED gelb LED yellow
Schutzart Schalter (IP-Code) Enclosure switch	IP67
Temperatur Temperature	-25°C ... +80°C



LSB-109-NBB2-V3-E2



Endschalterfabrikat Producer switch	P+F
Endschaltertyp Switch type	NBB2-V3-E2 (PNP N.O.)
Spannung Voltage	10-30V DC
Stromaufnahme Current consumption	100 mA
Schaltfrequenz Frequency	1000 Hz
Leerlaufstrom No-load suppl. current	15 mA
Anzeige Output indicator	LED gelb LED yellow
Schutzart Schalter (IP-Code) Enclosure switch	IP67
Temperatur Temperature	-25°C ... +80°C





Introducing Motivact's NAMUR 316SS Solenoid valve.
Corrosion resistant NAMUR Solenoid valve for harsh conditions.



- ▶ Complete Stainless steel material (Main body, Spool, Armature tube, Manual override)
- ▶ NAMUR Standard, For double operated actuators
- ▶ Manual override with and Without detent
- ▶ Compact design with large flow rate
- ▶ Suitable for Critical environment. Low and high temperature. Dirty and pollution condition
- ▶ Corrosion resistant. High temperature resistance.
- ▶ Seal material : VITON
- ▶ All valves available with ex protected coils (ATEX and Other international approvals)

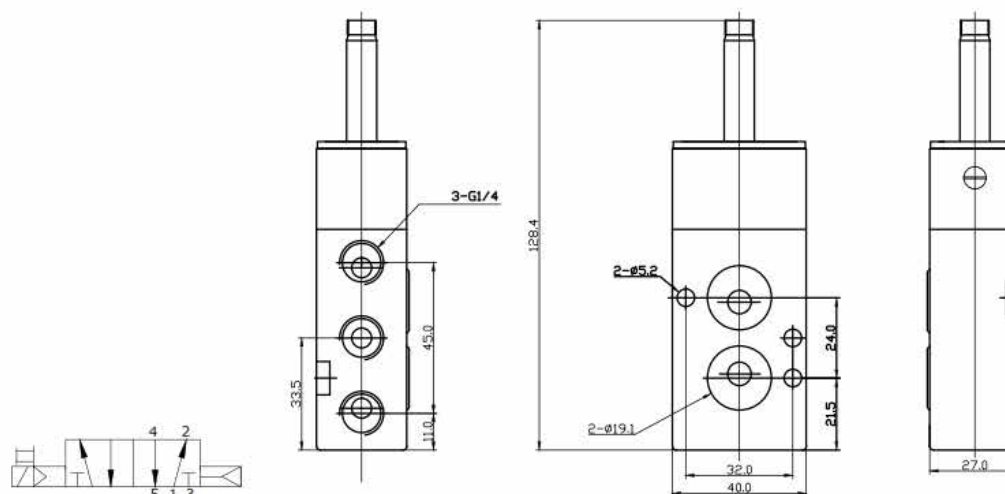
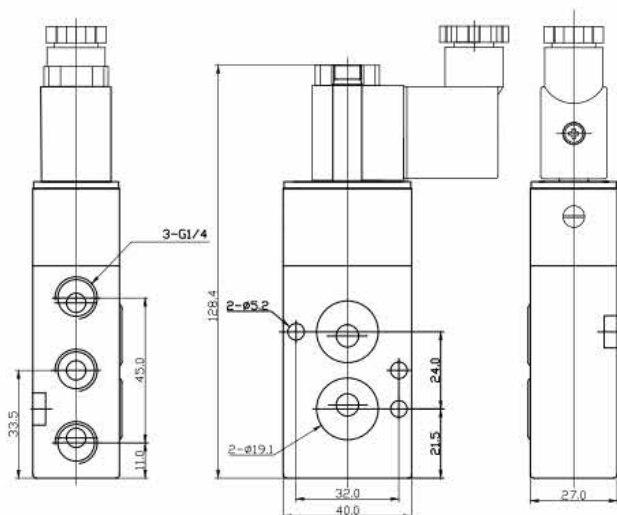


Technical specification :

- Operating media – AIR/GAS
- Ports – BSPT / NPT / G
- Operating pressure – 0.1 to 1.0 Mpa
- Operating Temp - -20 to 180 Deg C
- Flow Rate – 1200L/min (1/4) to 1700L/min (3/8)

Series ordering code										
	MTVS	5	2	1	-	08	-	A	-	Ex
Series										
MTVS	Stainless steel solenoid valve									
Number of positions										
5	Two-position Five-way									
3	Two-position Three-way									
Body size										
2	2 Series valve body									
3	3 Series valve body									
Coil and places										
1	Single-head									
2	Double-head									
Joint pipe bore										
06	1/8									
08	1/4									
10	3/8									
Solenoid voltage										
A	240V AC									
C	110V AC									
E	24V DC									
F	12V DC									
Solenoid coil										
Blank	IP65(With connector)									
Ex	Ex protected coils									

➤ Several standard voltage grades are optional.



YT 1000 R POSITIONER 4-20mA ROTARY

Features

- PassCEauthentication
- Pass explosion proof (Exia II CT6, Exd II BT6, Exd II CT6) authentication
- Pass IP66 authentication
- High anti-vibration (none effective in 5-200Hz)
- The linking of air duct is perforated form, convenient for the linking in all direction
- Convenient for the transform of positive action and counteraction
- 1/2 split range available by simple adjustments without changing parts
- Easy maintenance
- Simple structure for feedback connection

The YT-1000 Series Positioner, mounted on a pneumatic actuator, moves the actuator by receiving DC 4~20mA signals from a controller. Also, the function of detecting and returning the actuator displacement provides accurate positioning in response to DC 4~20mA signals.

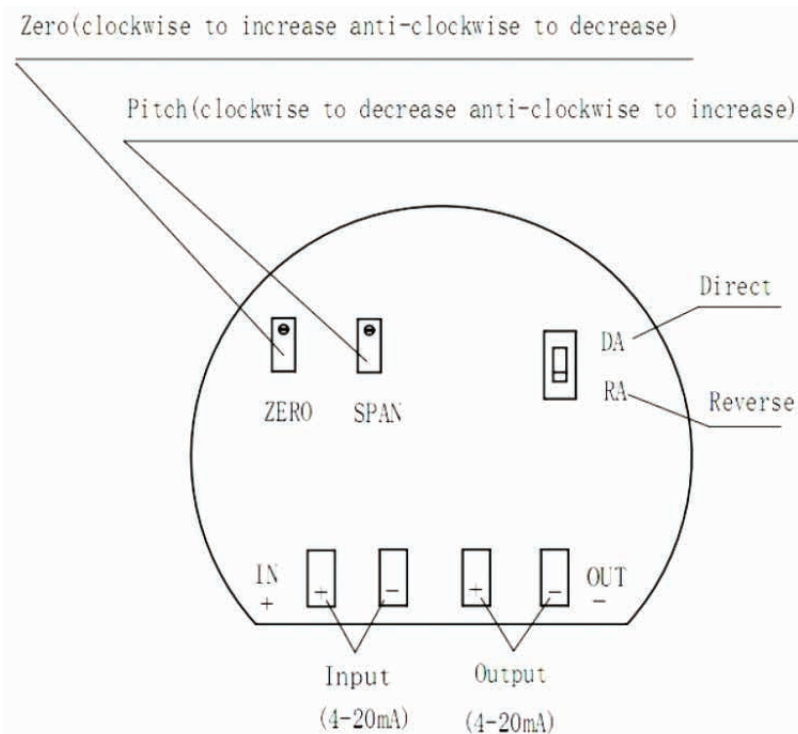
The YT-1000 can be used with both spring return and double acting actuators.



Motivact YT1000R Rotary 4-20ma Positioner.
For the Modulating control of quarter turn valves in General
purpose applications.

SPECIFICATIONS

Item \ Type	YT-1000L		YT-1000R	
	Linear		Rotary	
	Single	Double	Single	Double
Input signal	4~20mADC			
Impedance	250±15			
Air supply	1.4~7kgf/cm2 (20~100psi)			
Stroke	10~150mm		0~90°	
Air connection	PT(NPT)1/4			
Gauge connection	PT(NPT)1/8			
Conduit	PF1/2(G1/2)			
Explosion proof	ExdIIBT6,ExdIICT6,ExiaCT6			
Protection	IP66			
Ambient temperature	-20° C~70° C			
Linearity	±1%F.S.		±2%F.S.	
Hysteresis	±1%F.S.			
Sensitivity	±0.2%F.S.		±0.5%F.S.	
Repeatability	±0.5%			
Air consumption	3LPM(Sup=1.4kgf/cm2,20psi)			
Flow capacity	80LPM(Sup=1.4kgf/cm2,20psi)			
Material	Aluminum alloy			
Weight	2.7kg(6lb)2.8kg(6.2lb)			



WIRING DIAGRAM

motivact

Distributed by



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