

NUTORK®

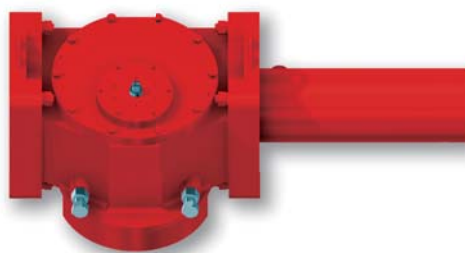
Actuators & Valves

CE SIL3 Ex EAC

NSF Series Scotch Yoke Type Hydraulic Actuator



Hydraulic Actuator
Single Acting Type

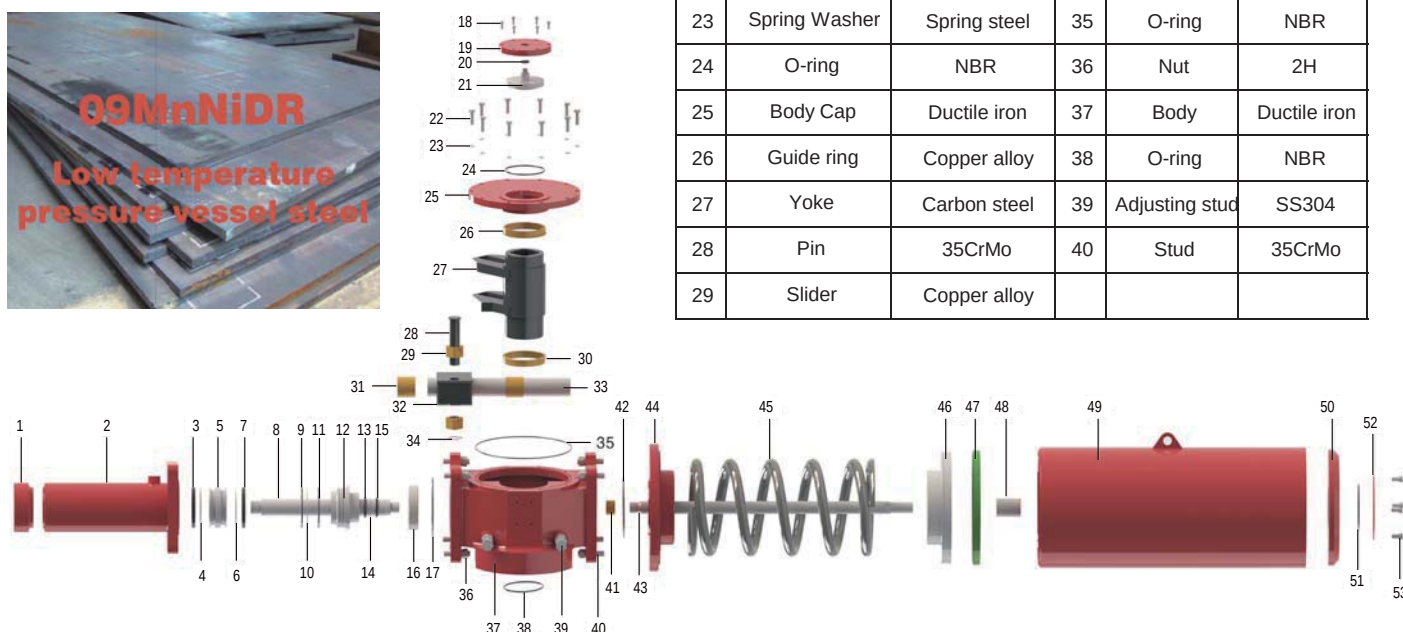
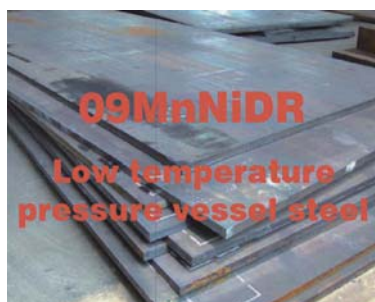


Hydraulic Actuator
Double Acting Type

NUTORK CORPORATION

NSF in extreme cold environment

In extreme environment application, PTFE is used for seal and temperature pressure vessel steel (09MnNiDR) is used for each module. The body will be welded with 09MnNiDR.



Body Module

No.	Name	Material	No.	Name	Material
18	Bolt	35	30	Guide ring	Copper alloy
19	Pointer covercap	Carbon steel	31	Bearing	Copper alloy
20	O-ring	NBR	32	Guide block	Carbon steel
21	Pointer	SS304	33	Guide rod	35CrMo
22	Bolt	35	34	Snap spring	65Mn
23	Spring Washer	Spring steel	35	O-ring	NBR
24	O-ring	NBR	36	Nut	2H
25	Body Cap	Ductile iron	37	Body	Ductile iron
26	Guide ring	Copper alloy	38	O-ring	NBR
27	Yoke	Carbon steel	39	Adjusting stud	SS304
28	Pin	35CrMo	40	Stud	35CrMo
29	Slider	Copper alloy			

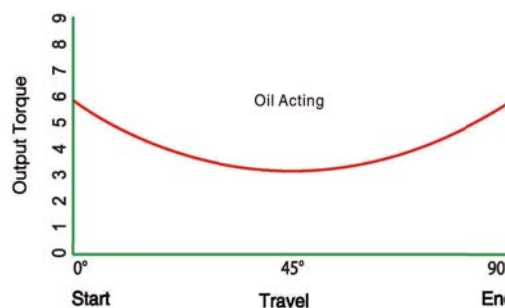
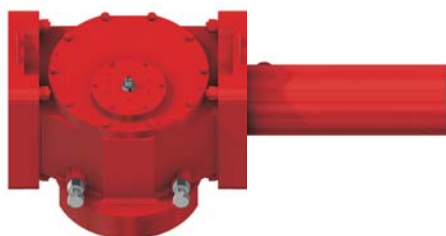
Cylinder Module

No.	Name	Material	No.	Name	Material
1	End cap	Carbon steel	10	Retainer ring	PTFE
2	Hydraulic cylinder	Carbon steel	11	O-ring	NBR
3	UN seal	TPU	12	Adapter	Carbon steel
4	Retainer ring	PTFE	13	Dustproof ring	NBR
5	Piston	QT400-7	14	Retainer ring	PTFE
6	Retainer ring	PTFE	15	UN seal	TPU
7	UN seal	TPU	16	Locknut	Carbon steel
8	Piston rod	35CrMo	17	O-ring	NBR
9	O-ring	NBR			

Spring Module

No.	Name	Material
41	Bearing	Copper alloy
42	O-ring	NBR
43	Piston rod	35CrMo
44	Spring case cover	Carbon steel
45	Spring	60Si2Mn
46	Spring seat	Q235
47	Guide ring	PTFE
48	Nut	45
49	Spring case	20
50	Spring case cover	Carbon steel
51	O-ring	NBR
52	End cap	Carbon steel
53	Bolt	35

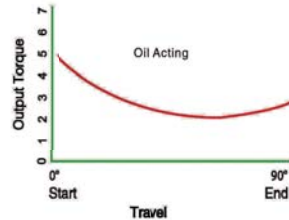
Torque Table - Double Acting (Hydraulic Actuators)



Unit: Nm

Model	Max Torque of Drive Moudule	Oil Supply					
		70 bar		100 bar		135 bar	
		Start End	Run	Start End	Run	Start End	Run
NSF14-60DA-H	2000	1364	818	1949	1169	2631	1578
NSF14-70DA-H		1994	1196	2849	1709	----	----
NSF16-70DA-H	4000	2347	1408	3354	2912	4527	2716
NSF16-80DA-H		3256	1953	4562	2791	----	----
NSF25-90DA-H	8000	4838	2902	6912	4147	9331	5598
NSF25-100DA-H		6219	3871	8885	5331	----	----
NSF25-110DA-H		7746	4648	----	----	----	----
NSF30-110DA-H	16000	8951	5371	12788	7673	17263	10358
NSF30-120DA-H		10995	6596	15708	9424	21205	12722
NSF30-130DA-H		13216	7929	18881	11328	----	----
NSF35-130DA-H	32000	15690	9414	22415	13449	30260	18156
NSF35-150DA-H		22023	13213	31462	18877	----	----
NSF35-170DA-H		29261	17556	----	----	----	----
NSF40-170DA-H	63000	32956	19773	47081	28248	63559	38135
NSF40-190DA-H		42843	25706	61205	36723	----	----
NSF40-220DA-H		59734	35840	----	----	----	----
NSF48-190DA-H	125000	49233	29539	70333	42199	94949	56969
NSF48-220DA-H		69104	41462	98720	59232	133272	79963
NSF48-245DA-H		87884	52730	125549	75329	----	----
NSF48-270DA-H		108684	65210	----	----	----	----
NSF60-245DA-H	250000	113246	67947	161780	97068	218403	131041
NSF60-270DA-H		141326	84795	201895	121136	272558	163533
NSF60-320DA-H		205664	122398	293807	176284	----	----

Torque Table - Spring Return Acting (Hydraulic Actuators)



Torque Table - Spring Return Acting(Oil Pressure at 70Bar)

Unit: Nm

Model	Max Torque of Drive Moudule	Spring			Hydraulic		
		Start	Running	End	Start	Running	End
NSF14-70SR1-H	2000	1079	543	647	1321	682	953
NSF14-70SR2-H		1477	752	948	1765	902	1243
NSF14-100SR3-H		2291	1162	1458	2976	1530	2125
NSF16-90SR1-H	4000	2595	1310	1629	2622	1285	1662
NSF16-100SR2-H		3194	1637	2085	3313	1629	2117
NSF16-110SR3-H		3858	1954	2446	4224	2101	2781
NSF25-110SR1-H	8000	4955	2466	2999	4865	2447	2913
NSF25-120SR2-H		6326	3117	3726	5648	2735	3469
NSF25-140SR3-H		7628	3750	4720	8325	4168	5571
NSF30-140SR1-H	16000	9375	4712	5724	9916	4843	6228
NSF30-150SR2-H		11426	5741	7092	10931	5226	6489
NSF30-170SR3-H		14080	6952	8344	15343	7723	10403
NSF35-170SR1-H	32000	18185	8970	10752	18430	9261	12440
NSF35-190SR2-H		23864	11772	14109	23947	12048	16215
NSF35-220SR3-H		28953	14335	17288	33278	16764	22601
NSF40-220SR1-H	63000	35425	17702	21679	37799	18605	24218
NSF40-245SR2-H		47742	23883	29300	48480	23583	30131
NSF48-245SR1-H	125000	57348	28690	35200	53961	25592	31346
NSF48-270SR2-H		69602	34788	42618	64371	31211	39668
NSF48-290SR3-H		82680	41743	51976	73638	35219	43760
NSF60-270SR1-H	250000	95891	47761	58177	86201	41893	53442
NSF60-320SR2-H		112369	57081	71764	133547	67250	90620

Torque Table - Spring Return Acting (Hydraulic Actuators)

Torque Table - Spring Return Acting(Oil Pressure at 100Bar)

Unit: Nm

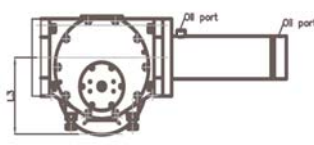
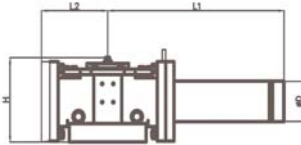
Model	Max Torque of Drive Moudule	Spring			Hydraulic		
		Start	Running	End	Start	Running	End
NSF14-60SR1-H	2000	1079	543	674	1276	655	907
NSF14-70SR2-H		1477	752	948	1893	979	1371
NSF14-80SR3-H		2291	1162	1458	2397	1183	1547
NSF16-80SR1-H	8000	2595	1310	1629	2988	1505	2028
NSF16-90SR2-H		3194	1637	2085	3999	2041	2804
NSF16-100SR3-H		3858	1954	2446	5284	2736	3839
NSF25-100SR1-H	8000	4955	2466	2999	5994	3081	4275
NSF25-110SR2-H		6326	3117	3726	7296	3724	5117
NSF25-120SR3-H		7628	3750	4720	8581	4322	5827
NSF30-120SR1-H	16000	9375	4712	5724	10008	4898	6320
NSF30-130SR2-H		11426	5741	7092	11620	5639	7177
NSF30-150SR1-H		14080	6952	8344	17453	8990	12513
NSF35-150SR1-H	32000	18185	8970	10752	20631	10581	14641
NSF35-170SR2-H		23864	11772	14109	28345	14688	20614
NSF35-190SR3-H		28953	14335	17288	35399	18036	24722
NSF40-190SR1-H	63000	35425	17702	21679	39270	19488	25689
NSF40-220SR2-H		47742	23883	29300	58110	29365	39768
NSF48-220SR1-H	125000	57348	28690	35200	64797	32094	42182
NSF48-245SR2-H		69602	34788	42618	81236	41330	56533
NSF48-270SR3-H		82680	41743	51976	102123	52310	72245
NSF60-245SR1-H	250000	95891	47761	58177	101957	51169	68609
NSF60-270SR2-H		112369	57081	71764	129778	64988	89820

Torque Table - Spring Return Acting(Oil Pressure at 135Bar)

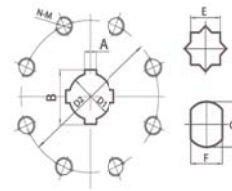
Model	Max Torque of Drive Moudule	Spring			Hydraulic		
		Start	Running	End	Start	Running	End
NSF14-60SR1-H	2000	1079	543	647	1958	1064	1591
NSF14-60SR2-H		1477	752	948	1675	848	1154
NSF14-70SR3-H		2291	1162	1458	2356	1158	1506
NSF16-70SR1-H	4000	2595	1310	1629	2864	2105	1904
NSF16-80SR2-H		3194	1637	2085	4156	2135	2961
NSF16-80SR3-H		3858	1954	2446	3795	1844	2352
NSF25-90SR1-H	8000	4955	2466	2999	6440	3348	4721
NSF25-100SR2-H		6326	3117	3726	8225	4281	6046
NSF25-100SR3-H		7628	3750	4720	7122	3447	4367
NSF30-110SR1-H	160000	9375	4712	5724	11564	5832	7876
NSF30-120SR2-H		11426	5741	7092	13944	7034	9502
NSF30-130SR3-H		14080	6952	8344	16953	8690	12013
NSF35-130SR1-H	320000	18185	8970	10752	19429	9860	13440
NSF35-150SR2-H		23864	11772	14109	29018	15091	21286
NSF35-170SR3-H		28953	14335	17288	38398	19835	27721
NSF40-170SR1-H	630000	35425	17702	21679	41624	20900	28043
NSF40-190SR2-H		47742	23883	29300	55410	27741	37061
NSF48-190SR1-H	125000	57348	28690	35200	61026	29831	38411
NSF48-220SR2-H		69602	34788	42618	88958	45964	64256
NSF48-245SR3-H		82680	41743	51976	116351	60847	86473
NSF60-220SR1-H	250000	95891	47761	58177	114382	58802	81624
NSF60-245SR2-H		112369	57081	71764	146287	74894	103360

Dimention - Double Acting (Hydraulic Actuator)

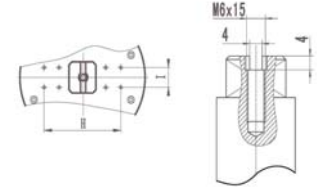
Outside Dimention



Bottom Connection(ISO5211)



Top Connection(Namur)



Unit: Nm

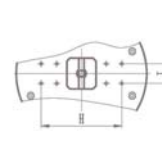
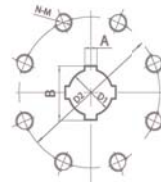
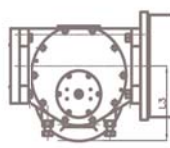
Model	Outside dimension					Female Drive Connexion						Flange Connection			Top Connection (Namur)		Air Port
						Keyed (FK)			Double Square (FS)	Double D (FD)							
	D	L1	L2	L3	H	A	B	D1		E	F	G	D2	N-M	SO5211	I	
NSF14-60DA-H	85	455	170	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-70DA-H	100	455	170	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF16-70DA-H	100	530	194	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-80DA-H	120	530	194	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF25-90DA-H	133	610	226	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-100DA-H	140	610	226	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-110DA-H	145	610	226	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF30-110DA-H	145	730	275	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-120DA-H	150	730	275	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-130DA-H	165	730	275	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF35-130DA-H	165	855	332	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-150DA-H	195	855	332	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-170DA-H	208	855	332	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	1/2"
NSF40-170DA-H	208	990	402	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-190DA-H	235	990	402	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-220DA-H	270	990	402	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF48-190DA-H	235	1150	475	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-220DA-H	270	1150	475	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-245DA-H	295	1150	475	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-270DA-H	325	1150	475	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF60-245DA-H	295	1420	468	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-270DA-H	350	1420	468	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-320DA-H	375	1420	468	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"

Dimension - Spring Return Acting (Hydraulic Actuator)

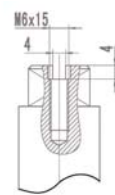
Outside Dimention



Bottom Connection(ISO5211)



Top Connection(Namur)



Unit: mm

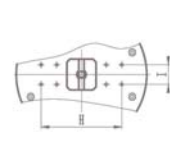
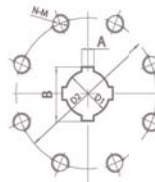
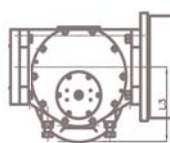
Model	Outside dimension					Female Drive Connction						Flange Connection			Top Connection (Namur)		Air Port
						Keyed (FK)			Double Square (FS)	Double D (FD)							
	D	L1	L2	L3	H	A	B	D1	E	F	G	D2	N-M	ISO5211	I	H	
NSF14-60SR1-H	85	455	680	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-70SR1-H	100	455		150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-60SR2-H	85	455		150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-70SR2-H	100	455		150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-70SR3-H	100	455	680	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-80SR3-H	120	455	680	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF14-100SR3-H	140	455	680	150	201	12	48.6	42	36	36	48.2	140	4-M16	F14	30	80	1/4"
NSF16-70SR1-H	100	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-80SR1-H	120	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-90SR1-H	133	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-80SR2-H	120	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-90SR2-H	133	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-100SR2-H	140	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-80SR3-H	120	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-100SR3-H	140	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF16-110SR3-H	145	530	910	180	217	18	68.8	60	46	46	60.2	165	4-M20	F16	30	80	1/4"
NSF25-90SR1-H	133	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-100SR1-H	140	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-110SR1-H	145	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-100SR2-H	140	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-110SR2-H	145	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-120SR2-H	150	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-100SR3-H	140	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-120SR3-H	150	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"
NSF25-140SR3-H	185	610	1040	240	260	20	81.8	72	55	55	72.2	254	8-M16	F25	30	80	3/8"

Dimention - Spring Return Acting (Hydraulic Actuator)

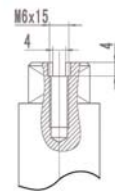
Outside Dimention



Bottom Connection(ISO5211)



Top Connection(Namur)



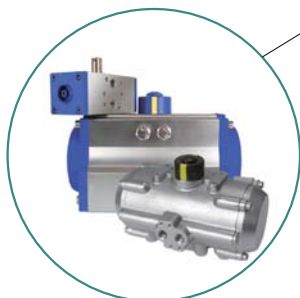
Unit: mm

Model	Outside dimension					Female Drive Connction						Flange Connection			Top Connection (Namur)		Air Port
						Keyed(FK)			Double Square (FS)	Double D (FD)							
	D	L1	L2	L3	H	A	B	D1	E	F	G	D2	N-M	SO5211	I	H	
NSF30-110SR1-H	145	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-120SR1-H	150	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-140SR1-H	185	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-120SR2-H	150	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-130SR2-H	165	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-150SR2-H	195	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-130SR3-H	165	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-150SR3-H	195	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF30-170SR3-H	208	730	1145	275	302	22	90.8	80	72	72	98.2	298	8-M20	F30	30	80	3/8"
NSF35-130SR1-H	165	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-150SR1-H	195	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-170SR1-H	208	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-150SR2-H	195	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-170SR2-H	208	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-190SR2-H	235	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-170SR3-H	208	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-190SR3-H	235	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF35-220SR3-H	273	855	1205	350	357	28	112.8	100	----	----	----	356	8-M30	F35	30	80	3/8"
NSF40-170SR1-H	208	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-190SR1-H	235	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-220SR1-H	273	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-190SR2-H	235	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-220SR2-H	273	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF40-245SR2-H	299	990	1780	410	392	40	178	160	----	----	----	406	8-M36	F40	30	80	1/2"
NSF48-190SR1-H	235	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-220SR1-H	273	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-245SR1-H	299	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-220SR2-H	273	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-245SR2-H	299	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-270SR2-H	325	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-245SR3-H	299	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-270SR3-H	325	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF48-290SR3-H	351	1150	2260	440	465	45	200.8	180	----	----	----	483	12-M36	F48	30	80	1/2"
NSF60-220SR1-H	273	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-245SR1-H	299	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-270SR1-H	325	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-245SR2-H	299	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-270SR2-H	325	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"
NSF60-320SR2-H	377	1420	2735	625	470	50	242.8	220	----	----	----	603	20-M36	F60	30	80	1/2"

Ordering Information

NSF	Body Code	Cylinder Size	No. of Cyliner	Actuator Type	Spring Size	Failure Position	Temp. Range	Additional Device
								A. Body Code: 14 16 25 30 35 40 48 60 B. Cylinder Size: For Hydraulic Actuator 40 50 60 70 80 90 100 110 120 130 150 170 190 220 245 270 320 C. Number of Cyliner for Pneumatic Actuator 0: Single Cyliner 1: Double Cyliner D. Actuator Type DA: Double Acting SR: Single Acting E. Spring Size For Hydraulic Actuator 1: Model 1 2: Model 2 3: Model 3 F. Failure Position FC: Fail Close FO: Fail Open G. Temprature Range S: Standard: -20°C~+80°C HT: High Temp.: -20 °C~+200°C LT: Low Temp.: -40°C~+80°C LLT: Extreme low temp.: -60°C~+80°C H. Additional Device MO: Declutching Manual Override HW: Hand Wheel Override HY: Hydraulic Override EX: Extened mechanical travel stop (for quick stroke within 5s)

NUTORK CORP. manufactures a wide range of pneumatic actuators, electric actuators and the accessories of pneumatic actuator (limit switchbox, solenoid valve, manual override ---etc.) for quarter turn valves



Rack & Pinion Type Pneumatic Actuator.
(Certificated by CE-ATEX/SIL3)
Max. Output Torque: 9340Nm



Scotch Yoke Type Pneumatic & Hydraulic Actuator.
(Certificated by CE-ATEX/SIL3)
Max. Output Torque 293800Nm



NTQ Series Electric Actuator
IP67/IP68(30M@24hrs)Enclosure & EExdIIBT6Max. Output Torque 6000Nm
Approved by SIL3/IP68/MD/LVD/EMC.



NTE Series Electric Actuator
IP67/IP68(30M@24hrs)
EnclosureMax. Output Torque 6000Nm
Approved by SIL3/IP68/MD/LVD/EMC.



Limit Switchbox IP67/IP68(50M@72hrs)
Enclosure & EExdIIBT6/EEExdIICT6



Solenoid Valve 3/2NC & 5/2 Way, Static O-ring Sealing Design.
Aluminum & 316SS Body
IP67 & EExdIIBT6/EEExdIICT6



Air Filter Regulator Aluminum Body with Vinyl Paint & 316SS Body.
Size: 1/4" ~ 1"



Manual Override Aluminum & Cast Iron & Ductile Iron Body
Max Output Torque 70000Nm



Ball valve (Floating ball design),
We can provide different pressure rating/ connection type/ operation mode.



Concentric Soft Seated Butterfly Valve
High Performance Double Eccentric Butterfly Valve
High Performance Triple Offset Metal Seated Butterfly Valve
We can provide different pressure rating/ connection type/ operation mode.