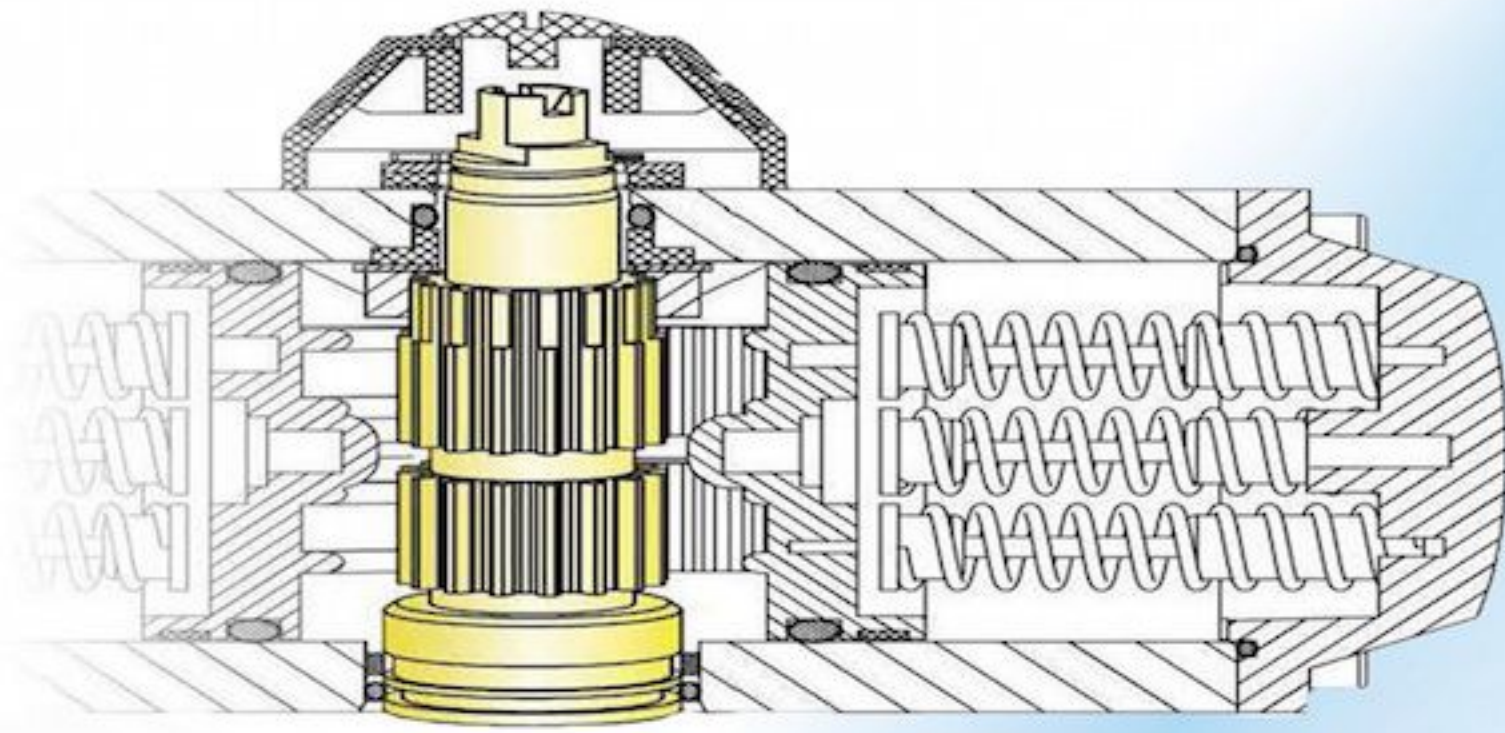





PNEUMATIC ACTUATOR



Pneumatic Actuator

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1.Indicator

Indicator according to VID/VIE3845 is convenient for mounting accessories such as limit switch box, Positioner and etc.

2.Pinion

The design of the nickel-plated alloy steel integrated forging pinion drive is according the NAMUR,ISO5211 and DIN3337 standards. Special standard are available upon request.

3.Actuator Body

High quality aluminum alloy extrusion formed. The surface has been treated by anodized hardening followed by epoxy polyester coating. Other surface treatments are available e.g.PTFE and Nickel plating as well as other colour coatings on request.

4.End Cap

The surface has been treated by anodized hardening followed by epoxy polyester coating. Other surface treatments are available on request e.g.PTFE and Nickel plating as well as other colours on request.

5.Piston

Are manufactured from Die-cast aluminum and treated by anodized hardening process. Symmetric mounting of the piston helps to ensure easy maintenance. Reverse action requirements can be achieved by inverting the pistons.

6.Adjusting Bolt

The two independent adjustment bolts can adjust opening and closing of the mounted valve within $\pm 5^\circ$

7.Spring

Are manufactured from 65Mn and are epoxy polyester coated. Springs are easily demounted and can be changed by quantity to suit different torque requirement.

8.Piston Ring

Are manufactured from low friction long life material POM. Can be easily changed for maintenance purposes.

9.O-rings

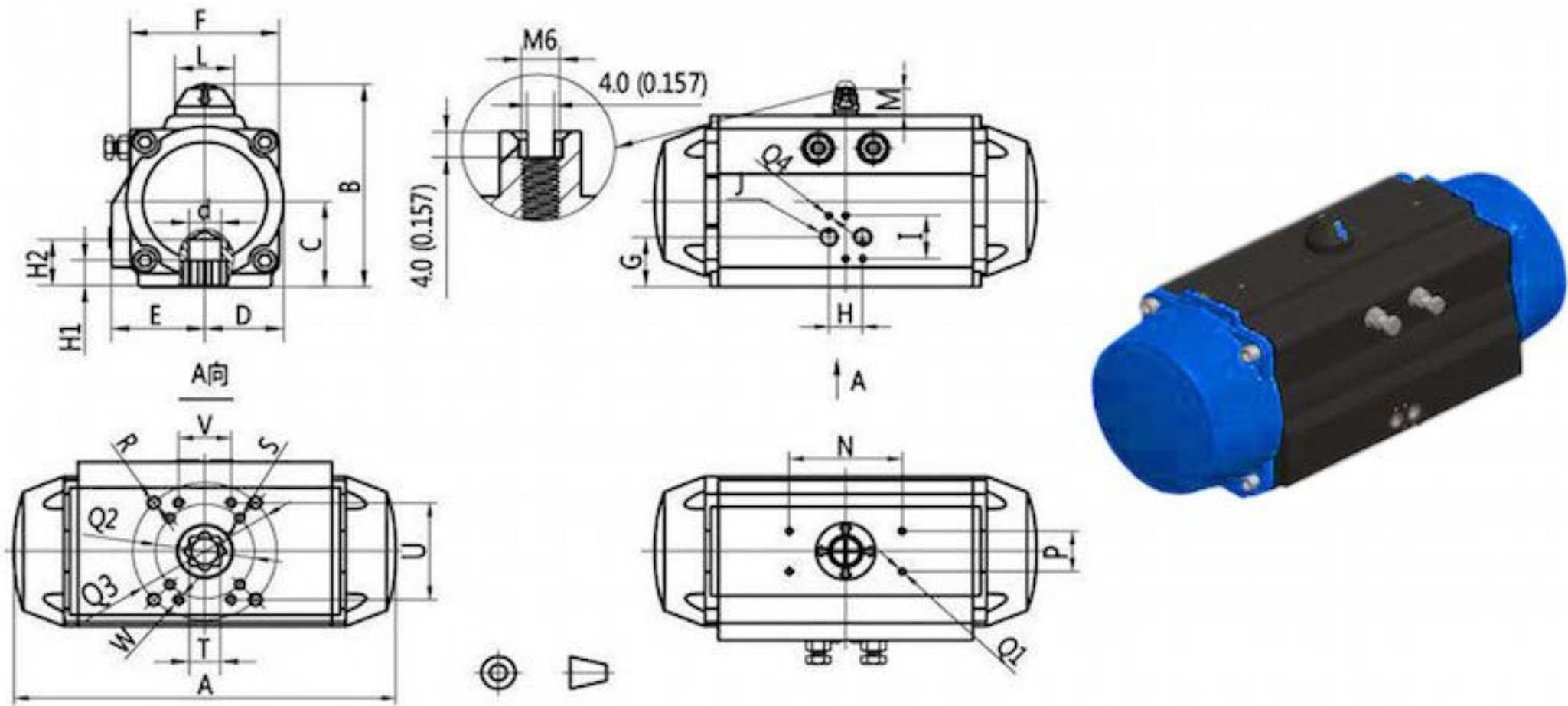
Standard NBR rubber O-rings provide trouble-free operation at standard temperature ranges. For other temperature requirements relevant materials can be offered on request.

10.Air Connection

Conforms to NAMUR standards

11.All stop parts are manufactured from SS304.

Dimension of AD & AS Pneumatic Actuator



Model Size	AD-050 (AS-050)	AD-063 (AS-063)	AD-075 (AS-075)	AD-085 (AS-085)	AD-100 (AS-100)	AD-115 (AS-115)	AD-125 (AS-125)	AD-145 (AS-145)	AD-160 (AS-160)	AD-180 (AS-180)	AD-200 (AS-200)	AD-240 (AS-240)	AD-265 (AS-265)	AD-300 (AS-300)	AD-350 (AS-350)
A	148	159	213	249	271	315	346	412	443	492	547	614	729	839	900
B	92	108	125	138	151	175	190	209.5	230	253	277	348	389	410	465
C	34.25	42.4	51	57.6	63.5	72.5	78.5	88	98.25	110	122	146	166.8	177.5	205
D	28.5	36	43.5	48.6	56	64	69	80	88	98.5	109	130.5	147	162	190
E	40.8	29	52.5	56.5	66	77	82	90	98.3	105.5	112	131	146.8	173	194.5
F	58	72	86	96.5	106	127	130	148.5	159.6	179.6	194	231	253.7	290	336
G	26	30	26.1	32	37	42.5	45.7	55	51.7	60.2	66	70	90	85	92
H	24	24	24	24	24	24	24	24	24	24	24	40	40	40	40
I	32	32	32	32	32	32	32	32	32	32	32	45	45	45	45
J	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"
L	φ42	φ42	φ42	φ42	φ42	φ66	φ66	φ66	φ66	φ80	φ80	φ80	φ80	φ80	φ80
M	20	20	20	20	20	20	30	30	30	30	30	50	50	50	50
N	80	80	80	80	80	80	80	80	80	130	130	130	130	130	130
P	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Q1	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5
Q2	φ42	φ50	φ50	φ50	φ70	φ70	φ102	φ102	φ102	φ102	φ102	φ125	-	-	-
Q3	-	-	φ70	φ70	φ102	φ102	-	φ125	φ125	φ140	φ140	φ165	φ165	φ165	254
Q4	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M6	M6	M6	M6
R	-	-	4-M8	4-M8	4-M10	4-M10	-	4-M12	4-M12	4-M16	4-M16	4-M20	4-M20	4-M20	8-M16
S	4-M5	4-M6	4-M6	4-M6	4-M8	4-M8	4-M10	4-M10	4-M10	4-M10	4-M10	4-M12	-	-	-
T	17	17	22	22	22	22	36	36	36	36	36	46	46	46	55
H1	12	16	19	19	23	23	29	29	29	42	42	50	50	50	60
d	φ14.3	φ14.3	φ19.5	φ19.5	φ23	φ23	φ36	φ36	φ36	φ38	φ38	φ48	φ48	φ48	φ55
H2	32	34	34	34	48	48	65	65	65	92	92	92	92	92	100
U	-	-	-	-	72	-	72	72	72	99	99	-	-	-	-
V	-	-	-	-	37	-	37	37	37	53	53	-	-	-	-
W	-	-	-	-	M8	M8	M8	M8	M8	M10	M10	-	-	-	-

Output Torque of Double Acting Pneumatic Actuator



metric unit Nm

Output Torque of Double Acting Pneumatic Actuator (Nm)							
Air Pressure Model	3.0bar	4.0bar	5.0bar	5.5bar	6.0bar	7.0bar	8.0bar
AD-050	9.5	12	15.8	17.5	19	23	26.5
AD-063	16	21.5	28.7	31	34	39	46
AD-075	34	47	58.5	63	69	80.5	91
AD-085	53	70	88	98	106	124	145
AD-100	76.5	104	127	142	155	184	214
AD-115	129	170	215	236	258	301	344
AD-125	163	210	268	300	328	385	442
AD-145	230	315	420	462	531	590	690
AD-160	350	450	560	625	675	788	910
AD-180	445	607	770	848	910	1501	1237
AD-200	625	840	1058	1165	1260	1462	1681
AD-240	1070	1435	1785	1970	2150	2508	2865
AD-265	1745	2320	2900	3200	3500	4080	4670
AD-300	2195	2927	3681	4025	4391	5122	5854
AD-350	3205	4274	5369	5876	6411	7479	8547



Output Torque of Single Acting Pneumatic Actuator



metric unit Nm

Output Torque of Single Acting Pneumatic Actuator (Nm)													
Air Pressure		4.0bar		5.0bar		5.5bar		6.0bar		7.0bar		8.0bar	
		0° On	90° Off	0° On	90° Off	0° On	90° Off	0° On	90° Off	0° On	90° Off	0° On	90° Off
Model													
AS-050			9.1	6.2	10.8	7.9	12.3	9.4	16.3	13.4	19.8	16.9	
AS-063	10.0	4.1	17.2	11.3	19.5	13.8	22.5	16.6	27.5	21.5	34.5	26.65	
AS-075	24.7	11.5	36.2	23.0	40.7	27.5	46.7	33.5	58.2	45.0	58.7	55.5	
AS-085	32.9	11.0	50.9	29.0	60.9	39.0	68.9	47.0	80.9	65.0	107.9	86.0	
AS-100	53.5	25.6	76.5	48.6	91.5	63.6	104.5	76.6	133.5	105.6	163.5	135.6	
AS-115			133	84	154	105	176	127	219	170	262	213	
AS-125	106	45	164	103	196	135	224	163	281	220	338	227	
AS-145	150	59	255	164	297	206	366	275	425	334	525	434	
AS-160	226	118	336	228	401	293	451	343	564	456	686	578	
AS-180	292	132	455	295	533	373	595	435	1186	1026	922	762	
AS-200	412	209	630	427	737	534	832	629	1034	831	1253	1050	
AS-240	704	383	1054	733	1239	918	1419	1098	1773	1458	2129	1812	
AS-265	1234	724	1813	1300	2113	1600	2413	1900	2993	2480	3583	3070	
AS-300	1453	716	2207	1470	2551	1814	2917	2180	3648	2911	4380	3643	
AS-350	2124	1050	3219	2145	3726	2652	4261	3187	5329	4255	6397	5323	

