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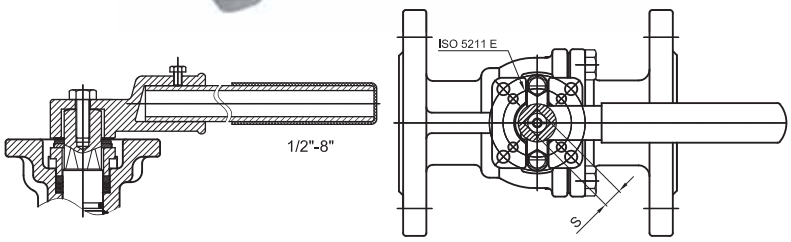
SPLIT BODY DIRECT-MOUNT FLANGE END BALL VALVE - GLAND DESIGN

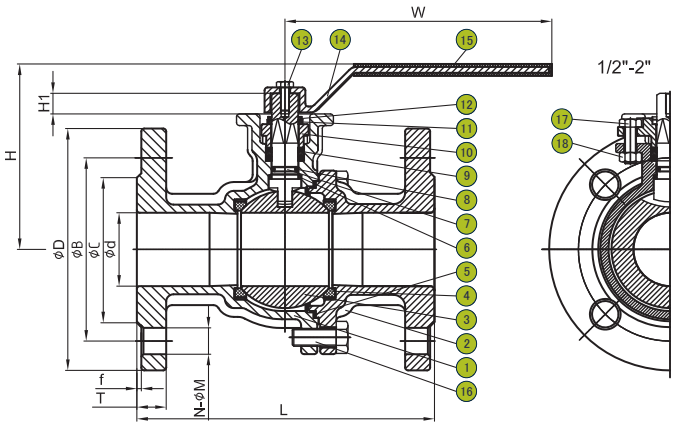
Model : Series 2D (Formerly TC-205FF)

ANSI CLASS 150

- **Body Material**
  CF8M, CF8, WCB
- **Size Range**
  1/2" - 8" (DN15~DN200)
- **Pressure Rating**
  Class150, 150PSI Saturated steam
- **End Connection**
  Flanged RF
- **Standards**
  Flange acc. to ASME B16.5
  Face-to-face acc. to ASME B16.0
- **Temperature Range**
  -4°F to 350°F (-20°C to 180°C) with PTFE seats







Materials List:

NO.	PART NAME	MATERIAL
1	BODY	WCB / CF8 / CF8M
2	CAP	WCB / CF8 / CF8M
3	BALL	CF8 / CF8 / CF8M
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	THRUST WASHER	TFM 4215
7	STEM	SS304 / SS316
8	O-RING	VITON
9	STEM PACKING	PTFE
10	GLAND	CF8
11	STOPPER	SS304
12	SNAP RING	SS304
13	HANDLE BOLT	CARBON STEEL / SS304
14	HANDLE	SS304
15	HANDLE SLEEVE	VINYL
16	BODY BOLT	CARBON STEEL / SS304
17	BODY BOLT	CARBON STEEL / SS304
18	BODY NUT	CARBON STEEL / SS304

Class 150 Dimensions (mm):

SIZE IN	SIZE DN	d	L	H	W	D	B	C	T	f	S	H1	N	M	ISO 5211	Torque N.m.
1/2"	15	15	108	84	123	89	60.5	35	11.1	1.6	9	9	4	16	F03/F04	14
3/4"	20	20	117	94	123	98	70.0	43	11.1	1.6	9	9	4	16	F03/F04	18
1"	25	25	127	101	153	108	79.5	51	11.1	1.6	11	11	4	16	F04/F05	22
1-1/4"	32	32	140	108	153	117	89.5	64	12.7	1.6	11	11	4	16	F04/F05	25
1-1/2"	40	40	165	121	183	127	98.5	73	14.3	1.6	14	14	4	16	F05/F07	29
2"	50	50	178	127	183	152	120.5	92	15.9	1.6	14	14	4	19	F05/F07	34
2-1/2"	65	65	190	154	352	178	139.5	105	17.5	1.6	17	17	4	19	F07/F10	50
3"	80	80	203	165	352	190	152.5	127	19.1	1.6	17	17	4	19	F07/F10	75
4"	100	100	229	183	397	229	190.5	157	23.9	1.6	22	22	8	19	F10/F12	100
5"	125	125	356	229	708	254	216.0	186	23.9	3	27	27	8	22	F10/F12	170
6"	150	150	394	248	708	279	241.5	216	25.4	1.6	27	27	8	22	F10/F12	270
8"	200	200	457	304	920	343	298.5	270	28.6	1.6	36	36	8	22	F14	380

Note: Torque measured at ambient temperature with no loading; safety factor is not included.
Select size(s) may be under development, please consult with us for details.

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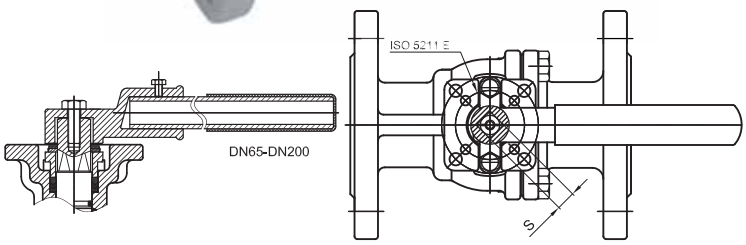
SPLIT BODY DIRECT-MOUNT FLANGE END BALL VALVE - GLAND DESIGN

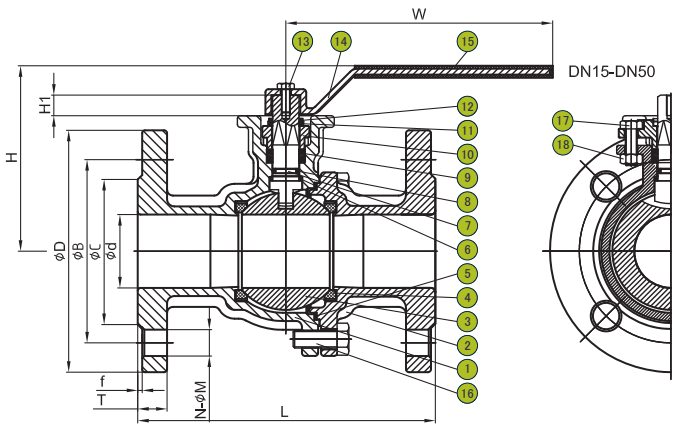
Model : Series 2D (Formerly TC-205FF)

DIN PN 16

- **Body Material**
  1.4408, 1.4308, 1.0619
- **Size Range**
  1/2" - 8" (DN15~DN200)
- **Pressure Rating**
  PN16, 150PSI Saturated steam
- **End Connection**
  Flanged RF
- **Standards**
  Flange acc. to DIN 2633 PN16
  Face-to-face acc. to DIN3202 -F4/F5
- **Temperature Range**
  -4°F to 350°F (-20°C to 180°C) with PTFE seats







Materials List:

NO.	PART NAME	MATERIAL
1	BODY	1.0619 / 1.4308 / 1.4408
2	CAP	1.0619 / 1.4308 / 1.4408
3	BALL	1.4308 / 1.4308 / 1.4408
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	THRUST WASHER	TFM 4215
7	STEM	SS304 / SS316
8	O-RING	VITON
9	STEM PACKING	PTFE
10	GLAND	CF8
11	STOPPER	SS304
12	SNAP RING	SS304
13	HANDLE BOLT	CARBON STEEL / SS304
14	HANDLE	SS304
15	HANDLE SLEEVE	VINYL
16	BODY BOLT	CARBON STEEL / SS304
17	BODY BOLT	CARBON STEEL / SS304
18	BODY NUT	CARBON STEEL / SS304

PN 16 Dimensions (mm):

SIZE IN	SIZE DN	d	L	H	W	D	B	C	T	f	S	H1	N	M	ISO 5211	Torque N.m.
1/2"	15	15	115	84	123	95	65	45	14	2	9	9	4	14	F03/F04	14
3/4"	20	20	120	94	123	105	75	58	16	2	9	9	4	14	F03/F04	18
1"	25	25	125	101	153	115	85	68	16	2	11	11	4	14	F04/F05	22
1-1/4"	32	32	130	108	153	140	100	78	16	2	11	11	4	18	F04/F05	25
1-1/2"	40	40	140	121	183	150	110	88	16	3	14	14	4	18	F05/F07	29
2"	50	50	150	127	183	165	125	102	18	3	14	14	4	18	F05/F07	34
2-1/2"	65	65	170	154	352	185	145	122	18	3	17	17	4	18	F07/F10	50
3"	80	80	180	165	352	200	160	138	20	3	17	17	8	18	F07/F10	75
4"	100	100	190	183	397	220	180	158	20	3	22	22	8	18	F10/F12	100
5"	125	125	325	229	708	250	210	188	22	3	27	27	8	18	F10/F12	170
6"	150	150	350	248	708	285	240	212	22	3	27	27	8	22	F10/F12	270
8"	200	200	400	304	920	340	295	268	24	3	36	36	12	22	F14	380

Note: Torque measured at ambient temperature with no loading; safety factor is not included.
Select size(s) may be under development, please consult with us for details.

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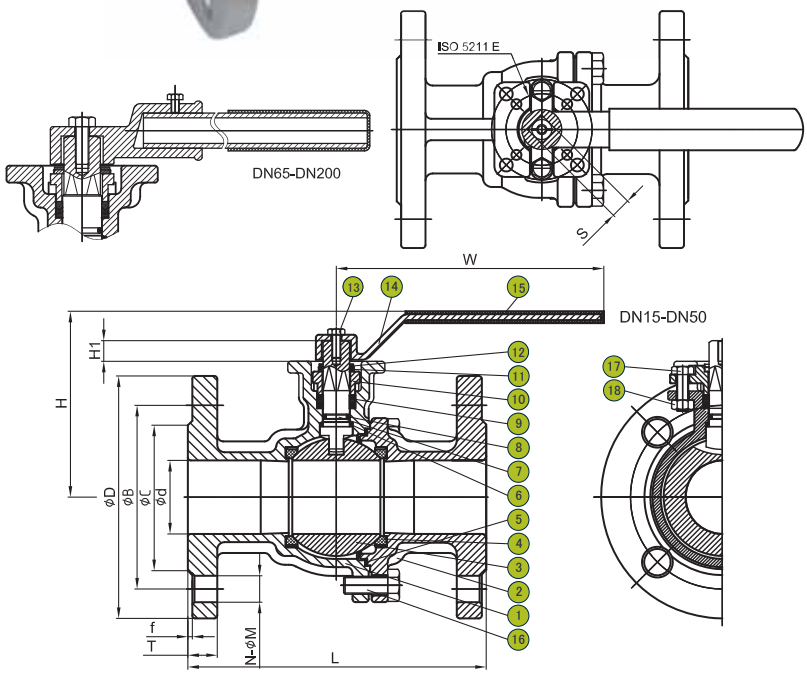
SPLIT BODY DIRECT-MOUNT FLANGE END BALL VALVE - GLAND DESIGN

Model : Series 2D (Formerly TC-205FF)

DIN PN 40

- **Body Material**
  1.4408, 1.4308, 1.0619
- **Size Range**
  1/2" - 8" (DN15~DN200)
- **Pressure Rating**
  PN40, 150PSI Saturated steam
- **End Connection**
  Flanged RF
- **Standards**
  Flange acc. to DIN 2635 PN40
  Face-to-face acc. to DIN3202 -F4/F5
- **Temperature Range**
  -4°F to 350°F (-20°C to 180°C) with PTFE seats





Materials List:

NO.	PART NAME	MATERIAL
1	BODY	1.0619 / 1.4308 / 1.4408
2	CAP	1.0619 / 1.4308 / 1.4408
3	BALL	1.4308 / 1.4308 / 1.4408
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	THRUST WASHER	TFM 4215
7	STEM	SS304 / SS316
8	O-RING	VITON
9	STEM PACKING	PTFE
10	GLAND	CF8
11	STOPPER	SS304
12	SNAP RING	SS304
13	HANDLE BOLT	CARBON STEEL / SS304
14	HANDLE	SS304
15	HANDLE SLEEVE	VINYL
16	BODY BOLT	CARBON STEEL / SS304
17	BODY BOLT	CARBON STEEL / SS304
18	BODY NUT	CARBON STEEL / SS304

PN 40 Dimensions (mm):

SIZE IN	SIZE DN	d	L	H	W	D	B	C	T	f	S	H1	N	M	ISO 5211	Torque N.m.
1/2"	15	15	115	84	123	95	65	45	16	2	9	9	4	14	F03/F04	18
3/4"	20	20	120	94	123	105	75	58	18	2	9	9	4	14	F03/F04	22
1"	25	25	125	101	153	115	85	68	18	2	11	11	4	14	F04/F05	26
1-1/4"	32	32	130	108	153	140	100	78	18	2	11	11	4	18	F04/F05	32
1-1/2"	40	40	140	121	183	150	110	88	18	3	14	14	4	18	F05/F07	38
2"	50	50	150	127	183	165	125	102	20	3	14	14	4	18	F05/F07	47
2-1/2"	65	65	170	154	352	185	145	122	22	3	17	17	8	18	F07/F10	58
3"	80	80	180	165	352	200	160	138	24	3	17	17	8	18	F07/F10	100
4"	100	100	190	183	397	235	190	162	24	3	22	22	8	22	F10/F12	150
5"	125	125	325	229	708	270	220	188	26	3	27	27	8	26	F10/F12	200
6"	150	150	350	248	708	300	250	218	28	3	27	27	8	26	F10/F12	320
8"	200	200	400	304	920	375	320	285	34	3	36	36	12	30	F14	600

Note: Torque measured at ambient temperature with no loading; safety factor is not included.
Select size(s) may be under development, please consult with us for details.

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JYL®

PNEUMATIC ACTUATOR
Serie JYL-AP



Higher performance and reliability

Fully compliance with all the latest international standards

Wide range options in technical specification and highly cost-effective

Compact housing design, suitable for any application and workin genvironment

DESIGN AND CONSTRUCTION

DESIGN

JYL series pneumatic actuators ha ve introduc ed improvement design for rack and pinion. It is alw ays Vtork's mission to o ffer initiative products by c ombining the long field experienc es in products a pplication and the latest production and materials te chnology a v a il a ble in the market tod ay. The benefit of new design has long been verified in practic e. With new te chnicalfe atures equipped, Vtork series pneumatic actuators have advanta geous characteristic in:

- Reliability
- High performance
- Fully compliance with all the latest international standards
- Extensive products range allows best versatility at lower price
- Innovations and patented solutions for a universal drive shaft
- Multifunction position indicator
- Compact and light

CONSTRUCTION

1. A single compact design utilizing identical body and end caps for both double acting and spring return models. This feature reduces inventory and allows field conversion, by adding or removing modular spring cartridges.

2. Full conformance to following latest specifications: ISO 5211, DIN 3337 and VDI/VDE 3845 for product interchangeability and easy mounting of solenoids, limit switches and other accessories.

3. JYL piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation. Reverse rotation can be accomplished in the field by simply inverting the pistons.

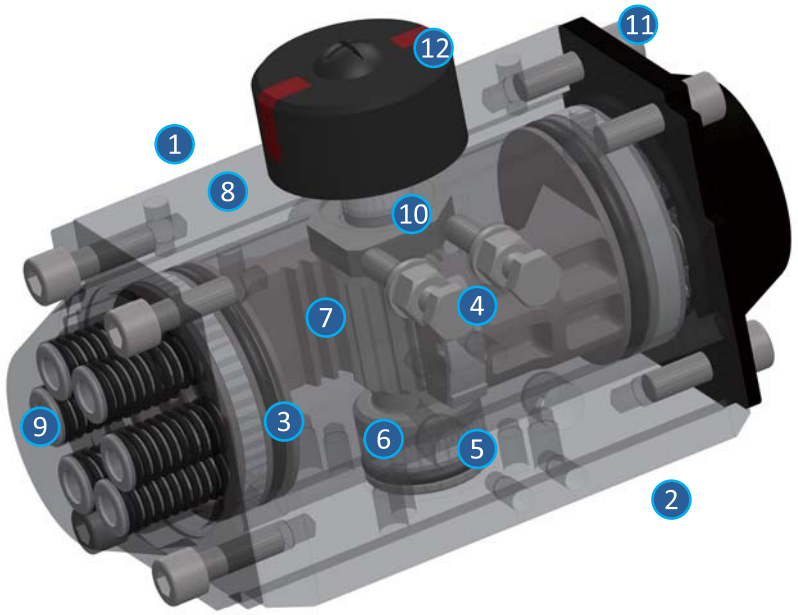
4. Two independent external travel stop adjustments permit easy and precise adjustment of +/- 5° in both directions. This adjustment may be made in either the open or closed position and provides for accurate valve alignment.

5. Multiple bearings and guides on pistons and racks for precise operation, low friction, high cycle life and a blowout proof pinion shaft.

6. Electroless nickel-plated blowout resistant, bearing guided, one-piece pinion shaft for improved safety and maximum cycle life.

7. High precision teeth on piston racks and pinion shaft for accurate positioning, low backlash, and maximum engagement resulting in overall efficient operation.

8. Extruded aluminum body with both internal and external corrosion protections having a honed cylinder surface for longer life and a lower coefficient of friction.



9. Modular preloaded spring cartridges designed with coated springs for simple range versatility, greater safety and corrosion resistance.

10. Selected high quality bearings and seals that provide a wide operating temperature range, low friction, and high cycle life.

11. Internal and external stainless steel fasteners for long term corrosion resistance.

12. Multifunctional position indicator for visual position indication, and a direct, easy, economical way to mount popular sensors.

RANGE OF OPTIONS, QUALITY MANUFACTURING, AND ACCESSORIES

RANGE OF OPTIONS

A. Stainless steel 304 or 316 drive shafts are available on request for all sizes no matter the type of corrosion protection selected.
B. For extremely high or low temperature applications, all models may be equipped with FPM or Silicon O rings along with an JYL tested and certified suitable lubricant.
C. Other than the standard double square bottom drive shaft connection, we can supply a keyed drive connection, a flat head connection or a special personalized drive connection.

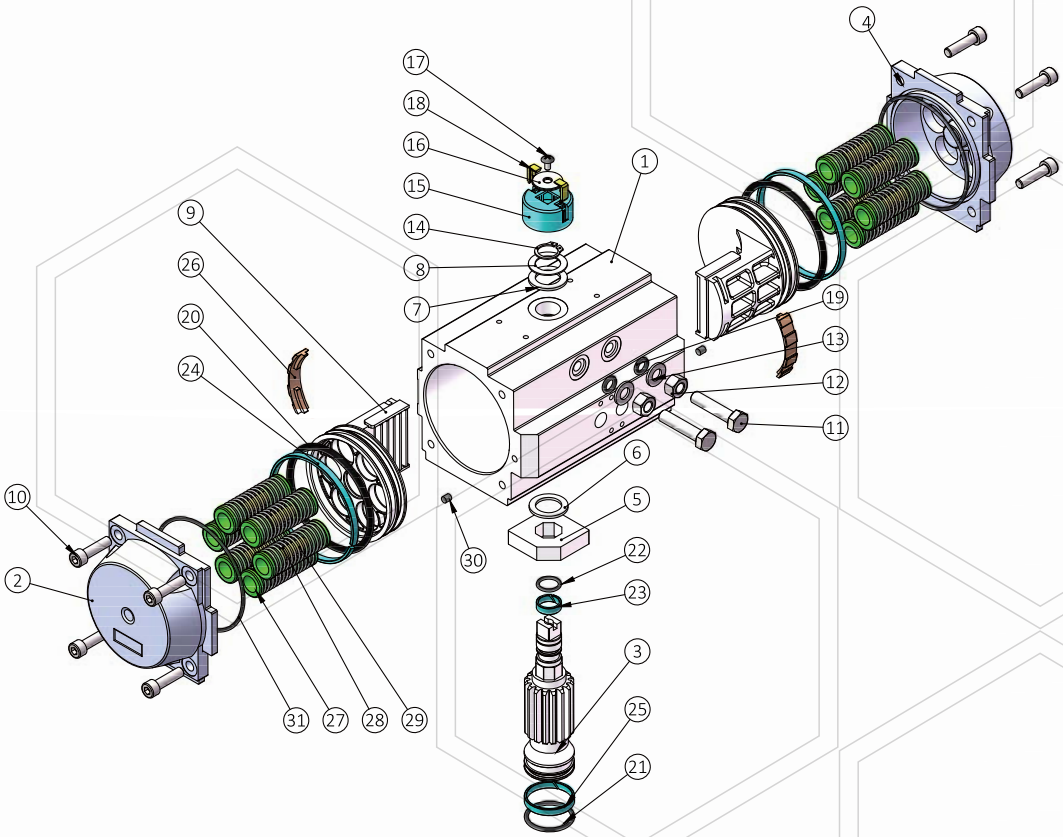
QUALITY MANAGEMENT

- Production conforms to ISO9001.
- Each individual actuator has been factory inspe cted and tested and given a serial number for full trac e ability.
- Each individual actuator is individually packed in a special cardboard carton for protection,with a product description label for easy identification and includes installation,operation and maintenance instructions .

ACCESSORIES AVAILABLE

- Different Square reductions suitable for drive shaft
- Centering rings for all sizes
- Brackets
- Couplings
- Solenoid valves
- Switch boxes
- Proximity switches
- Gear boxes
- Positioners

Parts And Materials



Item Number	Part Description	Material Quality	QTY	Item Number	Part Description	Material Quality	QTY	Item Number	Part Description	Material Quality	QTY
1	Body	Aluminium alloy	1	12	Nut(stop screw)	Stainless steel	2	23	Bearing(pinion top)	POM+PTFE	1
2	Left End cap	Aluminium alloy	1	13	Washer (stop screw)	Stainless steel	2	24	Bearing(pinion head)	POM+PTFE	2
3	Drive shaft	Alloy Steel	1	14	Spring clip	Spring steel	1	25	Bearing(pinion bottom)	POM+PTFE	1
4	Right end cap	Aluminium alloy	1	15	Position indicator	Nylon	1	26	Wear band	Nylon	2
5	OCTI-CAM	Alloy Steel	1	16	Indicator thrust bearing	Stainless steel	1	27	Spring seat	Nylon	24
6	Thrust bearing (pinion top)	POM+PTFE	1	17	Cap screw	Stainless steel	1	28	Spring	High-carbon steel	12
7	Thrust bearing	POM+PTFE	1	18	Color code	Nylon	2	29	Straining beam	Copper pipe	12
8	Thrust washer	Stainless steel	1	19	"o" ring(stop screw)	NBR	2	30	Plug	NBR	2
9	Piston	Aluminium alloy	2	20	"o" ring(piston)	NBR	2	31	"o" ring(end cap)	NBR	2
10	Cap screw (end cap)	Stainless steel	8	21	"o" ring(pinion bottom)	NBR	1				
11	Stop top screw	Stainless steel	2	22	"o" ring(pinion top)	NBR	1				

TECHNICAL DATA(METRIC UNIT)

Model TypeA	AP032		AP050		AP065		AP0075		AP085		AP095		AP110		AP125		AP140		AP160		AP190		AP210		AP240		AP270		AP300		AP350		AP400	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S
Diameter mm	32		50		65		75		85		95		110		125		140		160		190		210		240		270		300		350		400	
Air Volume Opening(L)	0.03		0.09		0.19		0.30		0.44		0.88		0.83		1.41		1.76		2.85		4.75		6.60		11.40		15.80		19.09		27.65		42.81	
Air Volume Closing(L)	0.04		0.15		0.32		0.50		0.66		1.17		1.27		2.13		2.72		4.08		7.20		10.29		15.10		18.80		28.23		44.10		62.05	
Opening Time (sec)	0.3		0.3	0.9	0.4	0.9	0.4	0.9	0.9	1.0	0.9	1.4	0.9	1.4	1.3	2.4	1.3	2.8	2.0	4.8	2.2	2.4	2.9	3.4	3.2	3.8	4.4	5.0	5.0	6.0	6.2	7.4	7.5	9.6
closing Time (sec)	0.4		0.4	0.7	0.4	0.8	0.4	0.9	0.9	1.2	1.0	1.4	1.0	1.6	1.4	2.4	1.4	3.0	2.4	4.9	2.6	3.0	3.8	4.1	3.7	4.0	4.9	5.5	6.0	6.8	7.2	8.4	8.5	10.6
Weight (Kg)hai	0.47	0.59	1.13	1.25	1.97	2.21	2.93	3.29	3.78	4.26	5.14	5.86	6.09	7.17	10.86	12.54	13.77	15.93	20.15	23.75	28.41	33.81	40.03	48.43	52.6	77.76	73.64	90.6	108	135.6	146.7	188.1	220.5	283.5

1. For model 32-160

(1)Room temperature (2)Actuator stroke 90° (3) Solenoid valve with orifice of 4 mm and a flow capacity Qn400L/min (4) Inside pipe diameter 6 mm (5) Medium clean air

(6) Air supply pressure 5.5 bar (7)Actuator without external resistance load

2. For model 190-400

(1)Room temperature (2)Actuator stroke 90° (3)Solenoid valve with orifice of 12 mm and a flow capacity Qn5100L/min (4) Inside pipe diameter 8 mm (5) Medium clean air

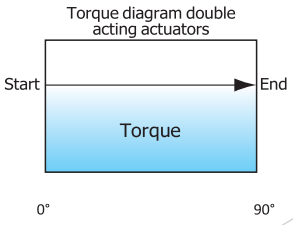
(6) Air supply pressure 5.5 bar (7)Actuator without external resistance load

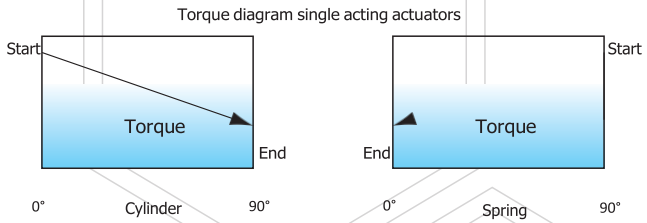
Cautions: obviously on the field applications when one or more of the above parameter are different, the moving time will be di fferent

Air consumption rest with air supply, air volume and action cycle times. Expressions:

$$L/min = \text{Air volume(opening air volume+closing air volume)} X \left[\frac{\text{Air Supply(Kpa)+101.3}}{101.3} \right] X \text{Action times(/min)}$$

METRIC TORQUE RATINGS





DOUBLE ACTING TORQUE RATINGS IN Nm

Model	Supply Pressure (Unit:bar)									
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**7**	**8**
AP032	2.9	3.4	4.0	4.6	5.3	5.9	6.5	7.1	8.3	9.5
AP050	8.6	10.4	12.3	14.2	16.0	17.9	19.8	21.6	25.4	29.1
AP065	17.4	21.2	25.0	28.7	32.5	36.3	40.1	43.9	51.4	59.0
AP075	27.0	32.9	38.8	44.7	50.5	56.4	62.3	68.2	79.9	91.7
AP085	39.7	48.3	56.9	65.6	74.2	82.8	91.4	100.1	117.3	134.6
AP095	55.7	67.9	80.0	92.1	104.2	116.4	128.5	140.6	164.8	189.1
AP110	72.0	89.3	105.0	120.6	136.3	152.0	167.6	183.3	214.6	245.9
AP125	128.7	159.5	187.5	215.4	243.4	271.4	299.4	327.4	383.3	439.3
AP140	196	237	278	319	360	401	442	483	565	647
AP160	263.5	326.6	383.9	441.2	498.5	555.8	613.1	670.4	785.0	899.7
AP190	428.5	518.0	607.3	696.6	785.9	875.3	964.6	1053.9	1232.5	1411.1
AP210	598.2	723.2	847.9	972.6	1097.3	1222.0	1346.6	1471.3	1720.7	1970.1
AP240	928.3	1122.0	1315.0	1508.0	1702.0	1895.0	2089.0	2282.0	2669.0	3056.0
AP270	1305.0	1577.0	1849.0	2121.0	2393.0	2665.0	2937.0	3209.0	3753.0	4297.0
AP300	1678.6	2029.4	2379.3	2729.2	3079.1	3429.0	3778.9	4128.8	4828.5	5528.3
AP350	2492.5	3011.8	3531.1	4050.4	4569.6	5088.9	5608.2	6127.5	7166.0	8204.6
AP400	3798.1	4589.4	5380.7	6172.0	6963.3	7754.5	8545.8	9337.1	10919.7	12502.2

SINGLE ACTING TORQUE RATINGS IN Nm

Model	Supply Pressure (Unit:bar)																				Spring stroke	
	2.5		**3**		**3.5**		**4**		**4.5**		**5**		**5.5**		**6**		**7**		**8**			
	0°	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**0°**	**90°**	**90°**	**0°**
AP050 S05	**5.1**	**3.4**	6.9	5.3	8.8	7.2	10.7	9.0	12.5	10.9	14.4	12.8	16.3	14.6	18.1	16.5	21.9	20.2	25.6	23.9	**5.2**	**3.5**
AP050 S06	4.4	2.4	**6.2**	**4.3**	8.1	6.1	10.0	8.0	11.8	9.9	13.7	11.7	15.6	13.6	17.4	15.5	21.2	19.2	24.9	22.9	**6.2**	**4.2**
AP050 S07			5.5	3.2	**7.4**	**5.1**	9.3	7.0	11.1	8.8	13.0	10.7	14.9	12.6	16.7	14.4	20.5	18.2	24.2	21.9	**7.2**	**4.9**
AP050 S08					6.7	4.1	**8.6**	**5.9**	10.4	7.8	12.3	9.7	14.2	11.5	16.0	13.4	19.8	17.1	23.5	20.9	**8.2**	**5.6**
AP050 S09							7.9	4.9	**9.7**	**6.8**	11.6	8.6	13.5	10.5	15.3	12.4	19.1	16.1	22.8	19.8	**9.3**	**6.3**
AP050 S10									9.0	5.7	**10.9**	**7.6**	12.8	9.5	14.6	11.3	18.4	15.1	22.1	18.8	**10.3**	**7.0**
AP050 S11											10.2	6.6	**12.1**	**8.4**	13.9	10.3	17.7	14.0	21.4	17.8	**11.3**	**7.7**
AP050 S12													11.4	7.4	**13.2**	**9.3**	17.0	13.0	20.7	16.7	**12.4**	**8.4**
AP065 S05	**8.7**	**4.3**	12.5	8.1	16.3	11.9	20.0	15.6	23.8	19.4	27.6	23.2	31.4	27.0	35.2	30.8	42.7	38.3	50.3	45.9	**13.1**	**8.7**
AP065 S06	7.0	1.7	**10.7**	**5.5**	14.5	9.2	18.3	13.0	22.1	16.8	25.9	20.6	29.7	24.4	33.4	28.2	41.0	35.7	48.6	43.3	**15.7**	**10.4**
AP065 S07			9.0	2.8	**12.8**	**6.6**	16.6	10.4	20.4	14.2	24.1	18.0	27.9	21.8	31.7	25.5	39.3	33.1	46.8	40.7	**18.3**	**12.2**
AP065 S08					11.0	4.0	**14.8**	**7.8**	18.6	11.6	22.4	15.4	26.2	19.1	30.0	22.9	37.5	30.5	45.1	38.1	**21.0**	**13.9**
AP065 S09							13.1	5.2	**16.9**	**9.0**	20.7	12.7	24.4	16.5	28.2	20.3	35.8	27.9	43.4	35.4	**23.6**	**15.7**
AP065 S10									15.1	6.3	**18.9**	**10.1**	22.7	13.9	26.5	17.7	34.0	25.2	41.6	32.8	**26.2**	**17.4**
AP065 S11											17.2	7.5	**21.0**	**11.3**	24.7	15.1	32.3	22.6	39.9	30.2	**28.8**	**19.1**
AP065 S12													19.2	8.7	**23.0**	**12.4**	30.6	20.0	38.1	27.6	**31.4**	**20.9**
AP075 S05	**16.3**	**10.2**	22.2	16.0	28.1	21.9	34.0	27.8	39.8	33.7	45.7	39.6	51.6	45.4	57.5	51.3	69.2	63.1	81.0	74.8	**16.9**	**10.7**
AP075 S06	14.2	6.8	**20.1**	**12.7**	25.9	18.6	31.8	24.4	37.7	30.3	43.6	36.2	49.4	42.1	55.3	47.9	67.1	59.7	78.8	71.4	**20.2**	**12.8**
AP075 S07			17.9	9.3	**23.8**	**15.2**	29.7	21.1	35.6	26.9	41.4	32.8	47.3	38.7	53.2	44.6	64.9	56.3	76.7	68.1	**23.6**	**15.0**
AP075 S08					21.7	11.8	**27.5**	**17.7**	33.4	23.6	39.3	29.4	45.2	35.3	51.0	41.2	62.8	53.0	74.5	64.7	**27.0**	**17.1**
AP075 S09							25.4	14.3	**31.3**	**20.2**	37.1	26.1	43.0	32.0	48.9	37.8	60.7	49.6	72.4	61.3	**30.3**	**19.3**
AP075 S10									29.1	16.8	**35.0**	**22.7**	40.9	28.6	46.8	34.5	58.5	46.2	70.3	58.0	**33.7**	**21.4**
AP075 S11											32.9	19.3	**38.7**	**25.2**	44.6	31.1	56.4	42.8	68.1	54.6	**37.1**	**23.5**
AP075 S12													36.6	21.8	**42.5**	**27.7**	54.2	39.5	66.0	51.2	**40.4**	**25.7**
AP085 S05	**23.2**	**13.7**	31.8	22.3	40.4	30.9	49.0	39.5	57.6	48.1	66.3	56.8	74.9	65.4	83.5	74.0	100.8	91.3	118.0	108.5	**26.1**	**16.6**
AP085 S06	19.8	8.4	**28.4**	**17.0**	37.1	25.7	45.7	34.3	54.3	42.9	62.9	51.5	71.6	60.2	80.2	68.8	97.4	86.0	114.7	103.3	**31.3**	**19.9**
AP085 S07			25.1	11.8	**33.8**	**20.5**	42.4	29.1	51.0	37.7	59.6	46.3	68.3	55.0	76.9	63.6	94.1	80.8	111.4	98.1	**36.5**	**23.2**
AP085 S08					30.4	15.2	**39.1**	**23.9**	47.7	32.5	56.3	41.1	64.9	49.7	73.6	58.4	90.8	75.6	108.1	92.9	**41.7**	**26.5**
AP085 S09							35.8	18.7	**44.4**	**27.3**	53.0	35.9	61.6	44.5	70.3	53.2	87.5	70.4	104.8	87.7	**46.9**	**29.8**
AP085 S10									41.1	22.1	**49.7**	**30.7**	58.3	39.3	67.0	48.0	84.2	65.2	101.5	82.5	**52.1**	**33.1**
AP085 S11											46.4	25.5	**55.0**	**34.1**	63.6	42.7	80.9	60.0	98.1	77.2	**57.3**	**36.4**
AP085 S12													51.7	28.9	**60.3**	**37.5**	77.6	54.8	94.8	72.0	**62.5**	**39.7**
AP095 S05	**33.6**	**20.9**	45.8	33.0	57.9	45.1	70.0	57.3	82.1	69.4	94.3	81.5	106.4	93.6	118.5	105.8	142.7	130.0	167.0	154.2	**34.9**	**22.1**
AP095 S06	29.2	13.9	**41.4**	**26.1**	53.5	38.2	65.6	50.3	77.7	62.4	89.8	74.5	102.0	86.7	114.1	98.8	138.3	123.0	162.6	147.3	**41.8**	**26.5**
AP095 S07			36.9	19.1	**49.1**	**31.2**	61.2	43.3	73.3	55.4	85.4	67.6	97.5	79.7	109.7	91.8	133.9	116.1	158.1	140.3	**48.8**	**30.9**
AP095 S08					44.6	24.2	**56.8**	**36.4**	68.9	48.5	81.0	60.6	93.1	72.7	105.2	84.8	129.5	109.1	153.7	133.3	**55.8**	**35.4**
AP095 S09							52.3	29.4	**64.5**	**41.5**	76.6	53.6	88.7	65.8	100.8	77.9	125.1	102.1	149.3	126.4	**62.7**	**39.8**
AP095 S10									60.0	34.5	**72.2**	**46.7**	84.3	58.8	96.4	70.9	120.6	95.1	144.9	119.4	**69.7**	**44.2**
AP095 S11											67.7	39.7	**79.9**	**51.8**	92.0	63.9	116.2	88.2	140.5	112.4	**76.7**	**48.6**
AP095 S12													75.4	44.8	**87.6**	**57.0**	111.8	81.2	136.0	105.4	**83.6**	**53.0**
AP110 S05	**43.4**	**26.2**	60.7	43.4	76.4	59.1	92.0	74.8	107.7	90.4	123.4	106.1	139.0	121.8	154.7	137.4	186.0	168.8	217.3	200.1	**45.9**	**28.6**
AP110 S06	37.7	17.0	**55.0**	**34.3**	70.6	49.9	86.3	65.6	102.0	81.3	117.6	96.9	133.3	112.6	149.0	128.3	180.3	159.6	211.6	190.9	**55.0**	**34.3**
AP110 S07			49.3	25.1	**64.9**	**40.8**	80.6	56.4	96.2	72.1	111.9	87.8	127.6	103.4	143.2	119.1	174.6	150.4	205.9	181.8	**64.2**	**40.0**
AP110 S08					59.2	31.6	**74.9**	**47.3**	90.5	62.9	106.2	78.6	121.9	94.3	137.5	109.9	168.9	141.3	200.2	172.6	**73.4**	**45.8**
AP110 S09							69.1	38.1	**84.8**	**53.8**	100.5	69.4	116.1	85.1	131.8	100.8	163.1	132.1	194.5	163.4	**82.5**	**51.5**
AP110 S10									79.1	44.6	**94.8**	**60.3**	110.4	75.9	126.1	91.6	157.4	122.9	188.7	154.2	**91.7**	**57.2**
AP110 S11											89.0	51.1	**104.7**	**66.7**	120.4	82.4	151.7	113.7	183.0	145.1	**100.9**	**62.9**
AP110 S12													99.0	57.6	**114.6**	**73.2**	146.0	104.6	177.3	135.9	**110.0**	**68.6**

METRIC TORQUE RATINGS

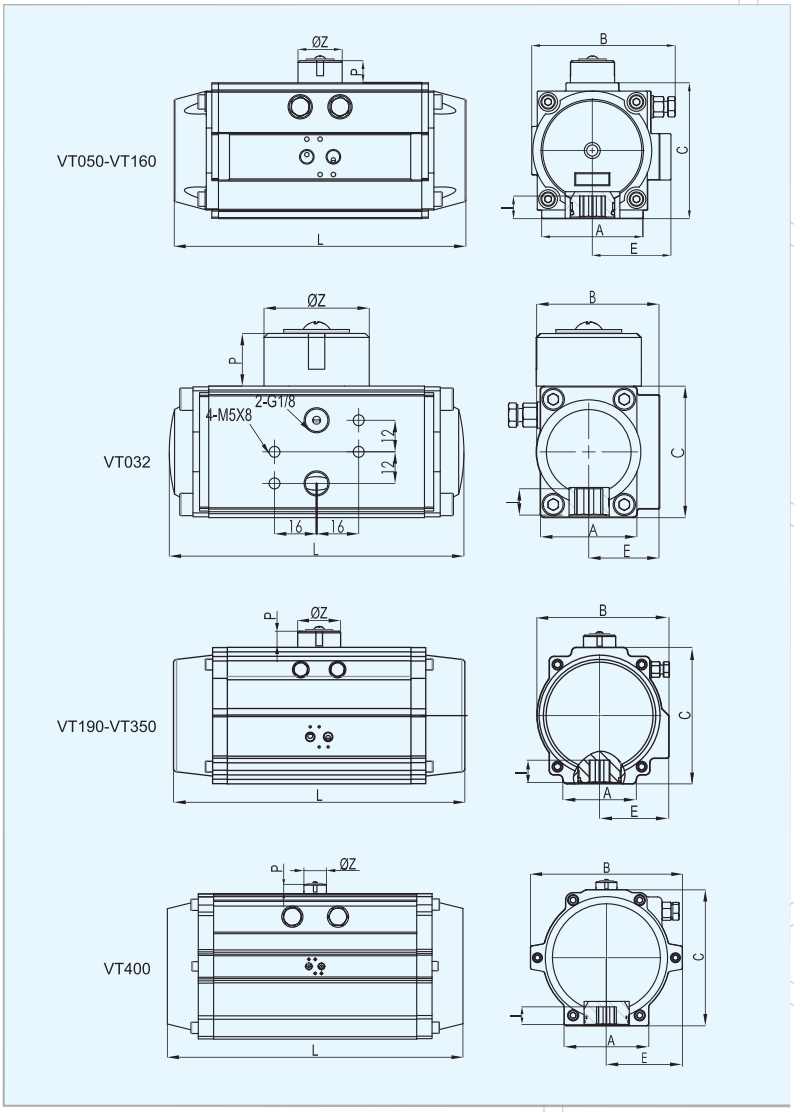
JYL®

SINGLE ACTING TORQUE RATINGS IN Nm

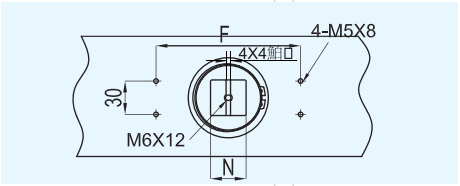
Model	Supply Pressure (Unit: bar)																				Spring stroke	
	2.5		3		3.5		4		4.5		5		5.5		6		7		8			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
AP125 S05	**77.7**	**48.2**	108.5	78.9	136.5	106.9	164.4	134.9	192.4	162.9	220.4	190.9	248.4	218.4	276.4	246.8	332.3	302.8	388.3	358.7	80.6	51.0
AP125 S06	67.5	32.0	**98.3**	**62.8**	126.3	90.8	154.2	118.8	182.2	146.8	210.2	174.7	238.2	202.7	266.2	230.7	322.1	286.7	378.1	342.6	96.7	61.2
AP125 S07			88.1	46.7	**116.1**	**74.7**	144.0	102.7	172.0	130.7	200.0	158.6	228.0	186.6	256.0	214.6	311.9	270.6	367.9	326.5	112.8	71.4
AP125 S08					105.9	58.6	**133.8**	**86.6**	161.8	114.5	189.8	142.5	217.8	170.5	245.8	198.5	301.7	254.4	357.7	310.4	128.9	81.6
AP125 S09							123.6	70.5	**151.6**	**98.4**	179.6	126.4	207.6	154.4	235.6	182.4	291.5	238.3	347.5	294.3	145.0	91.8
AP125 S10									141.4	82.3	169.4	110.3	197.4	138.3	225.4	166.3	281.3	222.2	337.3	278.2	161.1	102.0
AP125 S11											159.2	94.2	187.2	122.2	215.2	150.2	271.1	206.1	327.1	262.1	177.2	112.2
AP125 S12													177.0	106.1	205.0	134.0	260.9	190.0	316.9	246.0	193.3	122.4
AP140 S05	114.2	74.1	155.1	115	196.1	156	237.0	196.9	277.9	237.8	318.8	278.7									122.4	82.3
AP140 S06	97.7	49.6	138.7	90.6	179.6	131.5	220.5	172.4	261.5	213.3	302.4	254.3	343.3	295.2							146.8	98.7
AP140 S07			122.2	66.1	163.2	107.0	204.1	147.9	245.0	188.9	285.9	229.8	326.9	270.7	367.8	311.6					171.3	115.2
AP140 S08					146.7	82.5	187.6	123.5	228.6	164.4	269.5	205.3	310.4	246.2	351.3	287.2	433.2	369.0			195.8	131.6
AP140 S09							171.2	99.0	212.1	139.9	253.0	180.9	294.0	221.8	334.9	262.7	416.7	344.6	498.6	426.4	220.2	148.1
AP140 S10									195.7	115.5	236.6	156.4	277.5	197.3	318.4	238.2	400.3	320.1	482.1	401.9	244.7	164.5
AP140 S11											220.1	131.9	261.1	172.8	302.0	213.8	383.8	295.6	465.7	377.5	269.2	181.0
AP140 S12													244.6	148.4	285.5	189.3	367.4	271.1	449.2	353.0	293.6	197.4
AP160 S05	**153.5**	**101.3**	216.6	164.4	273.9	221.7	331.2	279.0	388.5	336.3	445.8	393.6	503.1	450.9	560.4	508.2	675.0	622.8	789.7	737.4	162.3	110.0
AP160 S06	131.5	68.8	**194.6**	**131.9**	251.9	189.2	309.2	246.5	366.5	303.8	423.8	361.1	481.1	418.4	538.4	475.7	653.0	590.3	767.7	705.0	194.7	132.0
AP160 S07			172.6	99.5	**229.9**	**156.8**	287.2	214.1	344.5	271.4	401.8	328.7	459.1	386.0	516.4	443.3	631.0	557.9	745.7	672.5	227.2	154.0
AP160 S08					207.9	124.3	**265.2**	**181.6**	322.5	238.9	379.8	296.2	437.1	353.5	494.4	410.8	609.0	525.4	723.7	640.1	259.6	176.0
AP160 S09							243.2	149.2	**300.5**	**206.5**	357.8	263.8	415.1	321.1	472.4	378.4	587.0	493.0	701.7	607.6	292.1	198.0
AP160 S10									278.5	174.0	335.8	231.3	393.1	288.6	450.4	345.9	565.0	460.5	679.7	575.2	324.5	220.0
AP160 S11											313.8	198.9	371.1	256.2	428.4	313.5	543.0	428.1	657.7	542.7	357.0	242.0
AP160 S12													349.1	223.7	406.4	281.0	521.0	395.6	635.7	510.3	389.4	264.0
AP190 S05	246.8	167.4	336.3	256.9	425.6	346.2	514.9	435.5	604.2	524.8	693.5	614.1									261.2	181.8
AP190 S06	210.4	115.1	299.9	204.6	389.2	293.9	478.5	383.3	567.8	472.6	657.2	561.9	746.5	651.2							313.4	218.1
AP190 S07			263.6	152.4	352.9	241.7	442.2	331.0	531.5	420.3	620.8	509.6	710.1	599.0	799.4	688.3					365.6	254.5
AP190 S08					316.5	189.5	405.8	278.7	495.1	368.1	584.5	457.4	673.8	546.7	779.5	636.0	941.7	814.7			417.8	290.8
AP190 S09							369.5	226.6	458.8	315.9	548.1	405.2	637.4	494.5	745.2	583.8	905.3	762.4	1084.0	941.1	470.1	327.2
AP190 S10									422.4	263.6	511.8	353.0	601.1	442.3	710.9	531.6	869.0	710.2	1047.6	888.8	522.3	363.5
AP190 S11											475.4	300.7	564.7	390.0	676.6	479.3	832.6	658.0	1011.3	836.6	574.5	399.9
AP190 S12													528.4	337.8	642.3	427.1	796.3	605.7	974.9	784.4	628.8	436.8
AP210 S05	**352.8**	**239.1**	477.8	364.1	602.5	488.8	727.2	613.5	851.9	738.2	976.6	862.9	1101.2	987.5	1225.9	1112.2	1475.3	1361.6	1724.7	1611.0	359.1	245.4
AP210 S06	303.7	167.3	**428.7**	**292.3**	553.4	417.0	678.1	541.7	802.8	666.4	927.5	791.0	1052.2	915.7	1176.9	1040.4	1426.2	1289.8	1675.6	1539.2	430.9	294.5
AP210 S07			379.6	220.5	**504.3**	**345.2**	629.0	469.8	753.7	594.5	878.4	719.2	1003.1	843.9	1127.8	968.6	1377.2	1218.0	1626.5	1467.4	502.7	343.6
AP210 S08					455.3	273.3	**579.9**	**398.0**	704.6	522.7	829.3	647.4	954.0	772.1	1078.7	896.8	1328.1	1146.2	1577.5	1395.5	574.6	392.6
AP210 S09							530.9	326.2	**655.6**	**450.9**	780.2	575.6	904.9	700.3	1029.6	825.0	1279.0	1074.3	1528.4	1323.7	646.4	441.7
AP210 S10									606.5	379.1	731.2	503.8	855.8	628.4	980.5	753.1	1229.9	1002.5	1479.3	1251.9	718.2	490.8
AP210 S11											682.1	431.9	806.8	556.6	931.5	681.3	1180.8	930.7	1430.2	1180.1	790.0	539.9
AP210 S12													757.7	484.8	882.4	609.5	1131.8	858.9	1381.1	1108.3	861.8	589.0
AP240 S05	517.8	374.3	711.2	567.7	904.6	761.1	1098.0	954.5	1291.4	1147.9	1484.8	1341.3									554.0	410.5
AP240 S06	435.7	263.5	629.1	456.9	822.5	650.3	1015.9	843.7	1209.3	1037.1	1402.7	1230.5	1596.1	1423.9							664.8	492.6
AP240 S07			547.0	346.1	740.4	539.5	933.8	732.9	1127.2	926.3	1320.6	1119.7	1514.0	1313.1	1707.4	1506.5					775.6	574.7
AP240 S08					658.3	428.7	851.7	622.1	1045.1	815.5	1238.5	1008.9	1431.9	1202.3	1625.3	1395.7	2012.1	1782.5			886.4	656.8
AP240 S09							769.6	511.3	963.0	704.7	1156.4	898.1	1349.8	1091.5	1543.2	1284.9	1930.0	1671.7	2316.8	2058.5	997.2	738.9
AP240 S10									880.9	593.9	1074.3	787.3	1267.7	980.7	1461.1	1174.1	1847.9	1560.9	2234.7	1947.7	1108.0	821.0
AP240 S11											992.2	676.5	1185.6	869.9	1379.0	1063.3	1765.8	1450.1	2152.6	1836.9	1218.8	903.1
AP240 S12													1103.5	759.1	1296.9	952.5	1683.7	1339.3	2070.5	1726.1	1329.6	985.2
AP270 S05	745.9	**519.4**	1017.9	791.4	1289.9	1063.4	1561.8	1335.3	1833.8	1607.3	2105.7	1879.2									786.0	**559.5**
AP270 S06	634.0	362.2	**906.0**	**634.2**	1178.0	906.2	1449.9	1178.1	1721.9	1450.1	1993.8	1722.0	2265.8	1994.0							943.2	**671.4**
AP270 S07			794.1	477.0	1166.1	**749.0**	1338.0	1020.9	1610.0	1292.9	1881.9	1564.8	2153.9	1836.8	2425.9	2108.8					1100.4	**783.3**
AP270 S08					954.2	591.8	1226.1	**863.7**	1498.1	1135.7	1770.0	1407.6	2042.0	1679.6	2314.0	1951.6	2857.9	2495.5			1257.6	**895.2**
AP270 S09							1114.2	706.5	1386.2	**978.5**	1658.1	1250.4	1930.1	1522.4	2202.1	1794.4	2746.0	2338.3	3289.9	2882.2	1414.8	**1007.1**
AP270 S10									1274.3	821.3	1546.2	**1093.2**	1818.2	1365.2	2090.2	1637.2	2634.1	2181.1	3178.0	2725.0	1572.0	**1119.0**
AP270 S11											1434.3	936.0	1706.3	**1208.0**	1978.3	1480.0	2522.2	2023.9	3066.1	2567.8	1729.2	1230.9
AP270 S12													1594.4	1050.8	1866.4	**1322.8**	2410.3	1866.7	2954.2	2410.6	1886.4	**1342.8**
AP300 S05	**987.5**	**646.7**	1338.3	997.5	1688.2	1347.4	2038.1	1697.3	2388.0	2047.2	2737.9	2397.1	3087.8	2747.0	3437.7	3096.9	4137.4	3796.6	4837.2	4496.4	1031.9	**691.1**
AP300 S06	849.3	440.3	**1200.1**	**791.1**	1550.0	1141.0	1899.9	1490.9	2249.8	1840.8	2599.6	2190.7	2949.5	2540.6	3299.4	2890.5	3999.2	3590.3	4699.0	4290.1	1238.3	**829.3**
AP300 S07			1061.9	584.7	**1411.7**	**934.6**	1761.6	1284.5	2111.5	1634.4	2461.4	1984.3	2811.3	2334.2	3161.2	2684.1	3861.0	3383.9	4560.8	4083.7	1444.7	**967.5**
AP300 S08					1273.5	728.2	**1623.4**	**1078.1**	1973.3	1428.0	2323.2	1777.9	2673.1	2127.8	3023.0	2477.7	3722.8	3177.5	4422.6	3877.3	1651.0	**1105.8**
AP300 S09							1485.2	871.8	**1835.1**	**1221.7**	2185.0	1571.5	2534.9	1921.4	2884.8	2271.3	3584.6	2971.1	4284.4	3670.9	1857.4	**1244.0**
AP300 S10									1696.9	1015.3	2046.8	**1365.2**	2396.7	1715.1	2746.6	2065.0	3446.3	2764.7	4146.1	3464.5	2063.8	**1382.2**
AP300 S11											1908.5	1158.8	2258.4	**1508.7**	2608.3	1858.6	3308.1	2558.4	4007.9	3258.2	2270.2	**1520.4**
AP300 S12													2120.2	1302.3	2470.1	**1652.2**	3169.9	2352.0	3869.7	3051.8	2476.6	**1658.6**
AP350 S05	**1498.2**	**1017.1**	2017.5	1536.4	2536.8	2055.6	3056.1	2574.9	3575.3	3094.2	4094.6	3613.5	4613.9	4132.7	5133.2	4652.0	6171.7	5690.6	7210.3	6729.1	1475.5	**994.3**
AP350 S06			**1818.6**	**1241.3**	2337.9	1760.5	2857.2	2279.8	3376.5	2799.1	3895.8	3318.4	4415.0	3837.7	4934.3	4356.9	5972.9	5395.5	7011.4	6434.0	1770.5	**1193.2**
AP350 S07			1619.8	946.2	**2139.1**	**1465.5**	2658.3	1984.7	3177.6	2504.0	3696.9	3023.3	4216.2	3542.6	4735.5	4061.8	5774.0	5100.4	6812.6	6139.0	2065.6	**1392.0**
AP350 S08					1940.2	1170.4	**2459.5**	**1689.6**	2978.8	2208.9	3498.0	2728.2	4017.3	3247.5	4536.6	3766.8	5575.1	4805.3	6613.7	5843.9	2360.7	**1590.9**
AP350 S09					1741.3	875.3	2260.6	1394.6	**2779.9**	**1913.8**	3299.2	2433.1	3818.5	2952.4	4337.7	3471.7	5376.3	4510.2	6414.8	5548.8	2655.8	**1789.7**
AP350 S10							2061.8	1099.5	2581.0	1618.7	**3100.3**	**2138.0**	3619.6	2657.3	4138.9	3176.6	5177.4	4215.1	6216.0	5253.7	2950.9	**1988.6**
AP350 S11							1862.9	804.4	2382.2	1323.7	2901.5	1842.9	**3420.7**	**2362.2**	3940.0	2881.5	4978.6	3920.0	6017.1	4958.6	3246.0	**2187.5**
AP350 S12									2183.3	1028.6	2702.6	1547.8	3221.9	2067.1	3741.2	**2586.4**	4779.7	3624.9	5818.3	4663.5	3541.1	**2386.3**
AP400 S05	2222.0	1497.0	3013.0	2288.0	3805.0	3080.0	4596.0	3871.0	5387.0	4662.0	6179.0	5454.0									2301.0	1576.0
AP400 S06			2698.0	1828.0	3490.0	2620.0	4281.0	3411.0	5072.0	4202.0	5863.0	4993.0	6655.0	5785.0							2761.0	1891.0
AP400 S07			2383.0	1368.0	3174.0	2195.0	3966.0	2951.0	4757.0	3742.0	5548.0	4533.0	6339.0	5324.0	7131.0	6116.0					3221.0	2206.0
AP400 S08					2859.0	1699.0	3650.0	2490.0	4442.0	3282.0	5233.0	4073.0	6024.0	4864.0	6816.0	5656.0	8398.0	7238.0			3682.0	2522.0
AP400 S09					2544.0	1239.0	3335.0	2030.0	4126.0	2821.0	4918.0	3613.0	5709.0	4404.0	6500.0	5195.0	8083.0	6778.0	9665.0	8360.0	4142.0	2837.0
AP400 S10							3020.0	1570.0	3811.0	2361.0	4603.0	3153.0	5394.0	3944.0	6185.0	4735.0	7768.0	6318.0	9350.0	7900.0	4602.0	3152.0
AP400 S11							2705.0	1110.0	3496.0	1901.0	4287.0	2692.0	5079.0	3484.0	5870.0	4275.0	7452.0	5857.0	9035.0	7440.0	5062.0	3467.0
AP400 S12									3181.0	1441.0	3972.0	2232.0	4763.0	2023.0	5555.0	3815.0	7137.0	5397.0	8720.0	6980.0	5522.0	3782.0

INSTALLATION

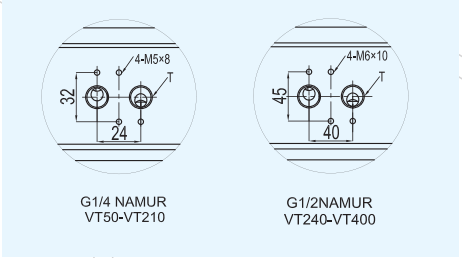
FRONT VIEW SIDE VIEW



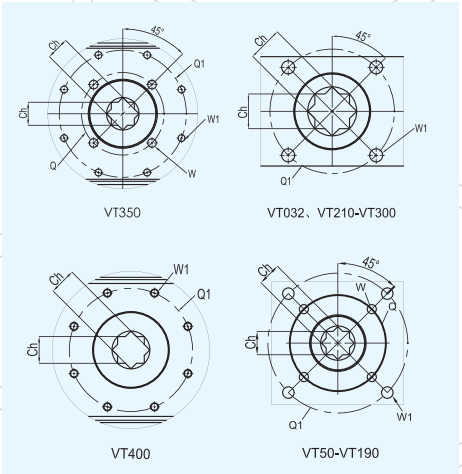
TOP



AIR CONNECTION



BOTTOM



MODEL	A	B	C	L	E	F	P	ØZ	N	I	FLANGE	Q	Q1	W	W1	Ch	T
AP032	37	47	50	110	27	50	20	40	10	10	F03	—	36	—	M5×9	9×9	G1/8"
AP050	45	70.5	70	154	41.5	80	20	40	10	12	F03/05	36	50	M5×7.5	M6×9	11×11	G1/4"
AP065	62	89.5	89	189	51.5	80	20	40	10	16	F05/07	50	70	M6×9	M8×12	14×14	G1/4"
AP075	68	102.5	100	210	59	80	20	40	14	16	F05/07	50	70	M6×9	M8×12	14×14	G1/4"
AP085	68	112.5	113	229	63.5	80	20	40	14	19	F05/07	50	70	M6×9	M8×12	17×17	G1/4"
AP095	92	126	123	264	71	80	20	40	14	19	F05/07	50	70	M6×9	M8×12	17×17	G1/4"
AP110	93	138.5	136	266	76.5	80	20	40	14	19	F07/10	70	102	M8×12	M10×15	17×17	G1/4"
AP125	96	157	161	337	85	80	30	56	22	25	F07/10	70	102	M8×12	M10×15	22×22	G1/4"
AP140	110	178	178	377	97	80	30	56	22	31	F10/12	102	125	M10×15	M12×18	27×27	G1/4"
AP160	112	196	200	412	106	130	30	56	22	31	F10/12	102	125	M10×15	M12×18	27×27	G1/4"
AP190	136	216.5	232	488	112	130	30	56	22	41	F10/14	102	140	M10×15	M16×24	36×36	G1/4"
AP210	140	235.5	255	550	120	130	30	80	32	40	F14	—	140	—	M16×24	36×36	G1/4"
AP240	159	262	292	602	131	130	30	80	32	50	F16	—	165	—	M20×28	46×46	G1/2"
AP270	159	295	331	672	147.5	130	30	80	32	50	F16	—	165	—	M20×28	46×46	G1/2"
AP300	180	335	354	784	173	130	30	80	32	50	F16	—	165	—	M20×28	46×46	G1/2"
AP350	270	385	410	845	195	130	30	80	32	50	F16/F25	165	254	M20×28	M16×30	46×46	G1/2"
AP400	290	520	466	956	260	130	30	80	32	60	F25	—	254	—	M16×30	55×55	G1/2"

MODEL SELECTION

MODEL	TYPE	SPRING QTY	FLANGE	SQURE	OPTION	SEALING PART
AP032	D=DOUBLE ACTING S=SPRING RETURN		F03	9×9	CAP COLOR RAL 7046 9004 5021 3020 6002 5015 TYPE OF BODY P Smooth Surface + hard Anodized S Sandblasted Surface + hard Anodized (Color: Grey) H Sandblasted Surface + hard Anodized (Color: Dark Grey) F Sandblasted Surface + hard Anodized + PTFE Coated	STANDARD NITRILE RUBBER -15°C-+80°C HT FLUORORUBBER (FOR HIGH TEMPERATURE) -15°C-+150°C LT SILASTIC (FOR LOW TEMPERATURE) -40°C-+80°C
AP050		ONLY FOR SPRING REST 4 5 6 7 8 9 10 11 12	F03/05	11×11		
AP065			F05/07	14×14		
AP075			F05/07	14×14		
AP085			F05/07	17×17		
AP095			F05/07	17×17		
AP110			F07/10	17×17		
AP125			F07/10	22×22		
AP140			F10/12	27×27		
AP160			F10/12	27×27		
AP190			F10/14	36×36		
AP210			F14	36×36		
AP240			F16	46×46		
AP270			F16	46×46		
AP300			F16	46×46		
AP350			F16/25	46×46		
AP400			F25	55×55		

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