

CHELIC PNEUMATIC



Ver. 1-6

CAT-1302



TAIWAN

TAIWAN CHELIC CORP. LTD.



SHANGHAI

SHANGHAI CHELIC PNEUMATIC CORP.



SHENZHEN

SHENZHEN CHELIC PNEUMATIC CORP.

 **CHELIC PNEUMATIC EQUIPMENTS**

Manufacturer / TAIWAN CHELIC CORP. LTD.
<http://www.chelic.com>



 WE SUPPLY SPECIALIZED PNEUMATIC EQUIPMENTS.

 The specification are subject to change without advance notice.



TAIWAN CHELIC CORP LTD. was established in 1986 and located in NEW TAIPEI CITY, TAIWAN, R.O.C. Our main products are pneumatic automation components including air unit, large-size filter, air control valves, variety-cylinder, grippers, vacuum ejectors, fittings, assembly pick and place robots and hydraulic components...etc. These pneumatic products are widely used in various manufacturing sectors, maintenance equipment, automation equipment, medical instrument and education equipment etc.

In order to achieve the standard requirement of the advanced country such as United States, Europe, Japan etc., with our continuous effort in improving our designs and manufacturing process, TAIWAN CHELIC CORPORATION LTD. has successfully attained ISO - 9002 certificated in March of 1995, achieve quality consistency and further up - graded the quality level so as to satisfy customer's need.

- 1986.11 Taiwan Chelic Corp Ltd was established located in Taipei Hsinchuang.
- 1990.10 Chelic cooperate with KOGANEI Japan, import advanced production and management skill of Air unit.
- 1995.03 In this year, as a result of we trained, excellent quality control executions, it honorably receive the ISO-9002 certification.
- 1998.04 We have obtained ISO-9001 certificated in 1998 and official put to our quality management system.
- 2000.11 Shanghai Chelic pneumatic corp. was established in 2000 and located in Shanghai city.
- 2001.04 We also has successfully attained CEC - TÜV safety certificate, achieved quality management as for EURO safe certificate system.
- 2008.10 In 2008, We Invested in GENTEK Shanghai Corp Ltd.
- 2009.09 By cooperating with Taiyo Corp, Japan, Taiwan Chelic has successfully developed the ODM project of supplying Rotary Gripper.

- 2010.05 Our head office moved to new building in TAISHAN Dist, New Taipei City, we conduct automatic warehouse system and computer management.
- 2010.11 By cooperating with Taiyo Corp, Japan, Taiwan Chelic has successfully developed the ODM project of supplying AIR UNIT Combination
- 2011.11 Implanting ERP System (Enterprise Resource Planning) to perform better enterprise internal management.
- 2012.05 The construction of second plant project in TAISHAN Dist, New Taipei City has started
- 2013.01 The new plant in Songjiang District, Shanghai, China, began to operate, where we have implant the ERP system as well in order to integrate the data sharing with head office in Taipei
- 2013.12 The construction of second plant in New Town, Songjiang District, Shanghai has began which is estimated 11560 square meters of land surface, with total of 14,528 square meters combine with three buildings.
- 2014.02 The new office in Shenzhen has established, are able to provide the service to support the clients in southern area of China.
- 2014.07 Approving by Securities and Futures Bureau of Financial Supervisory Commission to offer the stock.
- 2014.09 Chelic has been launched on Taiwan's GreTai Securities Market (GTSM) on Sep. 2014 (stock code : 4555) and publicly list in 2015.

TAIWAN CHELIC has been studying and improving our product quality and supplying various products to the industries as well as reducing manufacturing cost and enhancing working efficiency.

AIR UNIT

CHELIC products

Air Unit



- NC F.R.L Combination P.17
- NFC FR.L Combination P.17
- NFR Filter Regulator P.17
- NF Air filter P.18
- NR Regulator P.19
- NL Lubricator P.19

Air Unit



- AC/BC/CC F.R.L Combination P.21
- AFC/BFC/CFC FR.L Combination P.21
- AFR/BFR/CFR Filter Regulator P.21
- AF/BF/CF Air filter P.21
- AR/BR/CR Regulator P.22
- AL/BL/CL Lubricator P.22

AIR UNIT

Mist separator



- MF series P.18
- MFD series P.18
- MFR series P.17
- MFRD series P.18

Mini Regulator



- NPR-100 series P.20
- NPR-200 series P.20
- NPR-300 series P.20

Large - Sized Filter



- DM-200 series P.19
- DM-300 series P.19
- DM-500 series P.19
- DM-800 series P.19

AIR UNIT

CHELIC products

Precision Regulator



- ER series P.20
- ERP series P.20

Exhaust valve / Auto Drain Trap



- AFB series P.20
- NDV series P.19

FR.L Combination



- PFC series P.22
- PFR series P.22
- PF series P.22
- PL series P.22

VALVE

Solenoid Valve



- SM series P.23
- SMB series P.24
- SMU / SMUB series P.24
- SR series P.25
- SRB series P.26
- SRU / SRUB series P.26

Manifold Type Solenoid Valve



- SF-300 series P.27
- SF-500 series P.27

Solenoid Valve



- SRK series P.28
- SK series P.28
- ST series P.27
- SNK series P.29
- SKU series P.29
- SV series P.29
- SN series P.29
- SV310 series P.30
- SKB series P.30

VALVE

CHELIC products

2 Ports Solenoid Valve



- SBS series P.30
- SU series P.30
- SFW series P.30
- SUD series P.31
- SUW series P.31
- SUS series P.31
- SAS series P.31
- SDC series P.31

Pilot Valve



- PM series P.33
- PMB series P.34
- PMU series P.33
- PMUB series P.34
- PV series P.34
- PN series P.34

Mechanical Valve



- MV-100 series P.31
- MV-110 series P.31
- MV-130 series P.32
- MV-150 series P.32
- MV-200 series P.32
- MV-230 series P.32
- MV-250 series P.32

VALVE

Hand-Operated Valve



- HVL series P.35
- HVM series P.35
- HVT series P.35

Quick Exhaust Valve



- QE series P.36
- QEH series P.36
- QEU series P.36
- QEUC series P.36

Foot Valve / Speed Controller



- FVA series P.35
- FVS series P.35
- SC series P.36

CYLINDER

Cartridge Cylinder



- NA series P.37
- NA2 series P.37
- NB series P.37

Free mount compact cylinder



- NU series P.37
- ND series P.38
- NQ series P.38

Compact Cylinder



- JD series P.39
- JG series P.40
- MSI series P.38

CHELIC products

CYLINDER

Guide Cylinder



- JTD series P.41
- JTF series P.41
- JCB series P.41
- JCF series P.41

Compact Cylinder



- JE series P.42
- JEK series P.42

Stopper Cylinder



- STB series P.43
- STC series P.43
- STD series P.43
- STDL series P.43
- STF series P.43

CYLINDER

CHELIC products

Miniature Cylinder



- SBA series P.44
- SDA series P.44
- SDX series P.44
- DBS2 series P.45
- DBF2 series P.45
- DBT series P.45
- FDA series P.45

Standard Cylinder



- DN series P.46
- DMB series P.46
- DU series P.47

Rod Locking Cylinder / End Lock Cylinder



- DNK series P.47
- DNE series P.47

CYLINDER

Clamp Cylinder



- DCK2 series P.48
- DCK2S series P.48

Power Clamp Cylinder



- DQ series P.48

Pin Clamp Cylinder



- DCQ series P.48
- DCQS series P.48

CYLINDER

CHELIC products

Air - Oil Converter / Booster



- DC series P.49
- DH series P.49
- PCB series P.49
- PCU series P.49

Rodless Cylinder



- PRU series P.50
- PRF series P.50
- PRUT series P.50

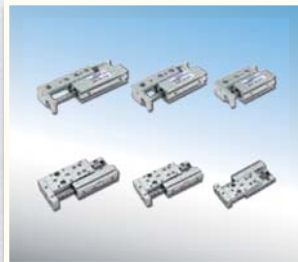
Magnetic Rodless Cylinder



- MRD series P.51
- MRB series P.51
- MRU series P.51
- MRH series P.51
- MRX series P.52
- MRY series P.52

CYLINDER

Slide Table Cylinder



- MSR(L) series P.52
- MSR(L)2 series P.52
- FMR(L) series P.53

Compact Slide Cylinder



- MQX series P.53

Slide Table Cylinder



- MDX series P.53
- MDXL series P.53

 **CYLINDER**

CHELIC products

Slide Table Cylinder



- MBX series P.53
- MGX series P.53

Dual Rod Cylinder



- TD series P.54
- TDX series P.54
- TDXU series P.54

Dual Rod Cylinder



- STU series P.54
- STM series P.54
- STX series P.54

 **CYLINDER**

Guide Cylinder



- TB(U) series P.55
- TB(U)2 series P.55
- TSB(U) series P.56
- TXB(U) series P.56

Guide Cylinder



- TMB(U) series P.57
- GCB(U) series P.57
- GHB(U) series P.57

Guide Cylinder



- TCR series P.57
- TCF series P.57

 **CYLINDER**

CHELIC products

Rotary Cylinder



- RTM series P.58
- RMF series P.58
- RTB series P.58
- RTBM series P.58
- RTZB series P.59
- RTP series P.59

Rotary cylinder



- RTH series P.59

Hydraulic cylinder



- RTU series P.59

 **CYLINDER**

Swing Clamp Cylinder



- SCR(L) series P.60
- HGR(L) series P.60

Double rod swing clamp cylinder



- HER series P.60

Swing Clamp Cylinder



- HSR(L) series P.60
- HBR(L) series P.61
- HFR(L) series P.61
- HUR(L) series P.61

CYLINDER

PNEUMATIC LINK CLAMP CYLINDER



- HFK series P.61

Hydraulic Cylinder



- HUK series P.61
- HCF series P.62
- HCS series P.62
- HCQ series P.62

Threaded-body cylinder



- HN series P.62
- HS series P.62

GRIPPER

Gripper



- HDL series P.65
- HDT series P.65

Gripper



- HDQ series P.65
- HDN series P.66
- HDR series P.66

Rotary Gripper



- RMZ series P.66
- RBZ series P.66

GRIPPER

Mini Gripper



- HDD series P.63

Gripper



- HDS series P.63
- HDM series P.63
- HDP series P.63
- HDF series P.63
- HDZ series P.64
- HDZL series P.64

Gripper



- HDW series P.64
- HDG series P.64

VACUUM EQUIPMENT

Vacuum Ejector



- EV series P.67
- EVM series P.67

Vacuum Ejector



- VAB series P.67
- VAS series P.67
- VABS series P.67

Vacuum Ejector



- VMB series P.68
- VMD series P.68
- VML series P.68
- VMK series P.68
- VMT series P.68
- VMBU series P.69
- VMDU series P.69

CHELIC products

CHELIC products

VACUUM EQUIPMENT

CHELIC products

Vacuum Ejector



- VKB series P.69
- VKS series P.69
- VKT series P.69
- VKST series P.70

Vacuum Filter



- VFD series P.70
- VFM series P.70
- VFU series P.70

Vacuum Regulator



- ERV series P.70

FITTING

Fitting



- Fitting series P.78

Mini Fitting



- Mini Fitting series P.79

ACCESSORIES

Accessories



- CJ P.82
- MAV / MBV / MCV P.82
- SAC / SAT / SAD P.83
- SHR P.83
- SLP P.82
- SL / SLB / SLR / SLBR P.82
- TK P.84
- PU / PN P.85

CHELIC products

VACUUM PAD

Vacuum Pad



- PAF P.71
- PAK P.71
- PAT P.71
- PAFS P.71
- PATS P.71
- PBF P.72
- PBK P.72
- PBT P.72
- PBFS P.72
- PBTS P.72

Vacuum Pad



- PCF series P.73
- PCK series P.73
- PCT series P.73
- PCFS series P.73
- PCTS series P.73

FITTING

Fitting



- Fitting series P.74 ~ P.77
- Metal Fitting series P.80 ~ P.81

ACCESSORIES

Sensor switch / Pressure switch



- CS series P.84
- PS series P.85

ASSEMBLY PICK AND PLACE ROBOT

Assembly pick and place robot



- APL2 series P.86
- APR2 series P.86
- APS2 series P.87


180° Rotary Gripper




- RML series P.87

Safety notice/common caution (1)

Please read this safety notice carefully, pay attention to safety item while using this product, in order to prevent injury to human body and damage of property; thus, there are divided into three classes of "Danger", "Warning", and "Caution" according to the extend of prevention.

 Danger	Obviously situated at "Danger" state, may cause casualty if not avoided; take special safety protection and management to prevent the occurrence of "Danger"
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 Warning	Condition of operation is situated at "Danger" state, may cause casualty if not avoided; take special safety protection and management to prevent the occurrence of "Danger"
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 Caution	Condition of operation is situated at "Danger" state, may cause minor or moderate injury and damage of property if not avoided; take safety protection and management
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- For safety protection and prevention of accident, please understand the condition of application and know the design, installation, procedure of usage and essential safety condition before using this product.
- Please use within the specification and requirement of this product; application beyond the specification may cause hazard. In case of special condition of application, take the confirmation of safety into account and then use it; in case of doubt in reading this information and related data, contact us before using.
- It is hazardous in error assemble and operation of compressed air and its accessories; so, while selecting the product, the related personnel of design, assemble, operating and service should possess sufficient knowledge and experience, and follow normal operating procedure, in order to maintain safe operation and good effect.
- The safety notice is made according to ISO 4414; pneumatic fluid power and JSI B 8370 general requirement of air system.


※ The safety notice , if change anything , excuse we don't notify.

Safety notice/common caution (2)

This product suitable for application in general industrial equipment; adhere to the following caution while designing, assembling, using and maintenance.

-  **Danger**
1. Please never use in following application
 - Use in operation, delivering and management of the appliance for the purpose of human life and body.
 - Use in operation which rise obvious "Danger" and safety concern to human life and body.
 - Special for safety purpose, situation with impact of safety to human life and body.
 2. Confirmation of safety shall avoid the following conditions which cause safety impact to human and damage of equipment.
 - Operation of machine , device should note to the drop of driven object or race at the rotation radius and operation range cause injury of human and damage of equipment.
 - Operation of machine, device should note the air supply source and poor power supply and interruption and cause injury of human and damage of equipment.
 - When restarting the machine, device may cause object flying out and cause injury of human and damage of equipment.

-  **Warning**
1. Please never use in following situation
 - In outdoor dusty condition.
 - Avoid chemical, corrosive and inflammable gas; avoid sea water, high temperature place in surrounding.
 - Exceed the condition in the specification of the product.
 - In the place tend to receive rigorous shock impact, which affect the quality and stability of the product.
 2. Please don't make any modification or disassemble to the structure, function of the product.
 3. Shut off the power switch and air source properly before service and maintenance , avoid consequent hazard and damage of product.
 4. Avoid consequent hazard and damage of product while assembling and operation.

-  **Caution**
1. Pay attention to the cleanliness of the pipeline while laying the pipe, avoid dust, dirt and leak proof tape been sucked into the pipeline, affect the operation performance of the product.
 2. There are itemized cautions for various product, please contact our sale personnel if any doubt arouse.

F.R.L. COMBINATION

NC



Model	Equipment Model			Port Size Rc (PT)	Flow Rate L/min (ANR)	Pressure Range Kgf/cm ² (Kpa)	Remarks
	Filter	Regulator	Lubricator				
NC-100	-M5	NF-100	NR-100	NL-100	M5	900	-H : Manual drainer (Standard type)
	-01				1/8"	900	
NC-200	-01	NF-200	NR-200	NL-200	1/8"	1000	-H : Manual drainer (Standard type)
	-02				1/4"	1000	
NC-300	-02	NF-300	NR-300	NL-300	1/4"	1300	-H-F1:Manual drainer With fitting (Option)
	-03				3/8"	1300	
NC-400	-02	NF-400	NR-400	NL-400	1/4"	2200	-S : Semi-Auto drainer Differential perssure drain (Option)
	-03				3/8"	2200	
NC-450	-04	NF-450	NR-450	NL-450	1/2"	2800	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
	-06				3/4"	2800	
NC-500	-06	NF-500	NR-500	NL-500	3/4"	5300	-A : Auto drainer
	-10				1"	5300	

F.R.L. COMBINATION

NFC



Model	Equipment Model		Port Size Rc (PT)	Flow Rate L/min (ANR)	Pressure Range Kgf/cm ² (Kpa)	Remarks
	Filter Regulator	Lubricator				
NFC-100	-M5	NFR-100	NL-100	M5	800	-H : Manual drainer (Standard type)
	-01			1/8"	800	
NFC-200	-01	NFR-200	NL-200	1/8"	1000	-H : Manual drainer (Standard type)
	-02			1/4"	1000	
NFC-300	-02	NFR-300	NL-300	1/4"	1300	-H-F1:Manual drainer With fitting (Option)
	-03			3/8"	1300	
NFC-400	-02	NFR-400	NL-400	1/4"	2200	-S : Semi-Auto drainer Differential perssure drain (Option)
	-03			3/8"	2200	
NFC-450	-04	NFR-450	NL-450	1/2"	3000	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
	-06			3/4"	3000	
NFC-500	-06	NFR-500	NL-500	3/4"	5300	-A : Auto drainer
	-10			1"	5300	

FILTER REGULATOR

NFR



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Gauge Rc (PT)	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-01	1/8"	900			
NFR-200	-01	1/8"	900	5µm	Square pressure gauge PG-22N	-H : Manual drainer (Standard type)
		-02	1/4"			
NFR-300	-02	1/4"	1200	5µm	Square pressure gauge PG-22N	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"			
NFR-400	-02	1/4"	1600	5µm	Square pressure gauge PG-22N	-S : Semi-Auto drainer Differential perssure drain (Option)
		-03	3/8"			
NFR-450	-04	1/2"	1800	5µm	Square pressure gauge PG-22N	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-04	1/2"			
NFR-500	-06	3/4"	3000	5µm	Square pressure gauge PG-22N	-A : Auto drainer
		-06	3/4"			
	-10	1"	5000			

MIST FILTER REGULATOR

MFR



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-02	1/4"	900		
MFR-300	-02	1/4"	1200	0.3µm	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"		
MFR-400	-02	1/4"	1600	0.3µm	-S : Semi-Auto drainer Differential perssure drain (Option)
		-03	3/8"		
MFR-450	-04	1/2"	1800	0.3µm	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-04	1/2"		
MFR-500	-06	3/4"	3000	0.3µm	-A : Auto drainer
		-06	3/4"		
	-10	1"	5000		

MICRO MIST FILTER REGULATOR

MFRD



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-02	1/4"	900		
MFRD-300	-02	1/4"	1200	0.01µm	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"		
MFRD-400	-02	1/4"	1600	0.01µm	-S : Semi-Auto drainer Differential perssure drain (Option)
		-03	3/8"		
MFRD-450	-04	1/2"	1800	0.01µm	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-04	1/2"		
MFRD-500	-06	3/4"	3000	0.01µm	-A : Auto drainer
		-06	3/4"		
	-10	1"	5000		

AIR FILTER

NF



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-01	1/8"	900		
NF-200	-01	1/8"	900	5µm	-H : Manual drainer (Standard type)
		-02	1/4"		
NF-300	-02	1/4"	1200	5µm	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"		
NF-400	-02	1/4"	2200	5µm	-S : Semi-Auto drainer Differential perssure drain (Option)
		-03	3/8"		
NF-450	-04	1/2"	2300	5µm	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-04	1/2"		
NF-500	-06	3/4"	3000	5µm	-A : Auto drainer
		-06	3/4"		
	-10	1"	5300		

MIST SEPARATOR

MF



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-02	1/4"	900		
MF-300	-02	1/4"	1200	Filtration efficiency 0.3 µm	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"		
MF-400	-02	1/4"	2200	Filtration efficiency 0.3 µm	-S : Semi-Auto drainer Differential perssure drain (Option)
		-03	3/8"		
MF-450	-04	1/2"	2300	Filtration efficiency 0.3 µm	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-04	1/2"		
MF-500	-06	3/4"	3000	Filtration efficiency 0.3 µm	-A : Auto drainer
		-06	3/4"		
	-10	1"	5300		

MICRO MIST SEPARATOR

MFD



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Filter Grade	Pressure Range Kgf/cm ² (Kpa)	Remarks
	-02	1/4"	900		
MFD-300	-02	1/4"	1200	0.01µm	-H : Manual drainer (Standard type)
		-03	3/8"		
MFD-400	-02	1/4"	2200	0.01µm	-H-F1:Manual drainer With fitting (Option)
		-03	3/8"		
MFD-450	-04	1/2"	2300	0.01µm	-S : Semi-Auto drainer Differential perssure drain (Option)
		-04	1/2"		
MFD-500	-06	3/4"	3000	0.01µm	-S-F2:Semi-Auto drainer Differential perssure drain With fitting (Option)
		-06	3/4"		
	-10	1"	5300		

REGULATOR

NR



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Gauge Rc (PT)	Pressure Range Kg/cm ² (Kpa)	Remarks
NR-100	-M5	M5	800	0.5 ~ 8.5 (50 ~ 850)	-
	-01	1/8"	900		
NR-200	-02	1/4"	1000	Standard: 0.5 ~ 8.5 (50 ~ 850) Low Pressure: 0.1 ~ 1 (10 ~ 100)	-L1:Low Pressure 1 Kg/cm ² -L2:Low Pressure 2 Kg/cm ² -L4:Low Pressure 4 Kg/cm ²
	-02	1/4"	1300		
NR-300	-03	3/8"	1300	0.5 ~ 2 (50 ~ 200)	
	-02	1/4"	2300		
NR-400	-03	3/8"	2300	0.5 ~ 4 (50 ~ 400)	
	-04	1/2"	2300		
NR-450	-04	1/2"	3000	0.5 ~ 8.5 (50 ~ 850)	-
	-06	3/4"	3000		
NR-500	-06	3/4"	5300		
	-10	1"	5300		

LUBRICATOR

NL



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Oil Capacity L/min (ANR)	Oil Volume CC	Remarks
NL-100	-M5	M5	850	0 ~ 25	20
	-01	1/8"	850		
NL-200	-01	1/8"	1000	0 ~ 30	25
	-02	1/4"	1000		
NL-300	-02	1/4"	1100	0 ~ 40	90
	-03	3/8"	1100		
NL-400	-02	1/4"	2200	0 ~ 40	90
	-03	3/8"	2200		
NL-450	-04	1/2"	2300	0 ~ 45	160
	-06	3/4"	2800		
NL-500	-06	3/4"	5200	0 ~ 45	160
	-10	1"	5200		

LARGE-SIZED FILTER

DM



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Remarks
DM□ - 200	-02	1/4"	2000	[W] : Water drop removal ratio 99% [F] : Main line filter 3µm [M] : Class 1 filter 0.3µm [D] : Class 2 filter 0.01µm
	-03	3/8"	2000	
	-03	3/8"	3300	
DM□ - 300	-04	1/2"	3600	0.5 ~ 10 (50 ~ 1000)
	-06	3/4"	3600	
DM□ - 500	-04	1/2"	6000	
	-06	3/4"	6000	
DM□ - 800	-10	1"	6000	
	-10	1"	12000	
	-12	1 1/2"	12000	

AUTO DRAIN TRAP

NDV



Model	Port Size Rc (PT)	Remarks
NDV-300	-02	1/4"
	-03	3/8"
	-04	1/2"
NDV-500	-06	3/4"
	-10	1"

NPR-100 series MINI REGULATOR

NPR



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Pressure Range Kg/cm ² (Kpa)
NPR-100	04	Ø4	140
	06	Ø6	160

NPR-200 / NPR-300 series MINI REGULATOR

NPR



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Gauge Rc (PT)	Pressure Range Kg/cm ² (Kpa)
NPR-200	M5	M5	250	2 ~ 7
NPR-300	01	01	280	

ER series PRECISION REGULATOR

ER



Model	Port Size Rc (PT)	Max. Pressure Mpa (Kg/cm ²)	Min. Pressure Mpa (Kg/cm ²)	Pressure Range Mpa (Kg/cm ²)	Gauge
ER-200	1/8"	Max. 1.0 Mpa (10.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.8 Mpa (0.1 ~ 8.2)	PG - 10A
ER-200-L4	1/8"	Max. 0.6 Mpa (6.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.4 Mpa (0.1 ~ 4.2)	PG - 10A
ER-200-L2	1/8"	Max. 0.2 Mpa (2.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.2 Mpa (0.1 ~ 2.2)	PG - 10A
ER-300	1/4"	Max. 1.0 Mpa (10.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.8 Mpa (0.1 ~ 8.2)	PG - 10A
ER-300-L4	1/4"	Max. 0.6 Mpa (6.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.4 Mpa (0.1 ~ 4.2)	PG - 10A
ER-300-L2	1/4"	Max. 0.2 Mpa (2.2)	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.2 Mpa (0.1 ~ 2.2)	PG - 10A

ERP series PRECISION REGULATOR

ERP



Model	Port Size Rc (PT)	Max. Pressure Mpa (Kg/cm ²)	Min. Pressure Mpa (Kg/cm ²)	Pressure Range Mpa (Kg/cm ²)	Gauge
ERP-200	1/8" · 1/4"	Max. 0.7 Mpa	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.6 Mpa (0.1 ~ 6.12)	PG - 10A
ERP-200-L4	1/8" · 1/4"	Max. 0.7 Mpa	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.4 Mpa (0.1 ~ 4.08)	PG - 05A
ERP-200-L2	1/8" · 1/4"	Max. 0.7 Mpa	Set Pressure+0.05Mpa (0.5)	0.01 ~ 0.2 Mpa (0.1 ~ 2.04)	PG - 05A

EXHAUST VALVE

AFB



Model	Port Size Rc (PT)	Flow Rate L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Remarks
AFB-150	1/8"	650	0.5 ~ 8.5 (50 ~ 850)	-H : Manual exhaust cock (Standard type)
AFB-200	1/4"	750		

F.R.L. COMBINATION

AC / BC / CC



Model	Equipment Model			Port Size Rc (PT)	Max. Flow L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Remarks
	Filter	Regulator	Lubricator				
AC-150	AF-150	AR-150	AL-150	1/8"	650	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -BG With bowl guard
AC-200	AF-200	AR-200	AL-200	1/4"	750		
BC-200	BF-200	BR-200	BL-200	1/4"	1000	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -S Semi-Auto drainer
BC-300	BF-300	BR-300	BL-300	3/8"	1350		
CC-400	CF-400	CR-400	CL-400	1/2"	3000	0.5 ~ 8.5 (50 ~ 850)	
CC-600	CF-600	CR-600	CL-600	3/4"	3100		

FR.L. COMBINATION

AFC / BFC / CFC



Model	Equipment Model			Port Size Rc (PT)	Max. Flow L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Remarks
	Filter Regulator	Lubricator					
AFC-150	AFR-150	AL-150	1/8"	650	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -BG With bowl guard	
AFC-200	AFR-200	AL-200	1/4"	750			
BFC-200	BFR-200	BL-200	1/4"	1000	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -S Semi-Auto drainer	
BFC-300	BFR-300	BL-300	3/8"	1350			
CFC-400	CFR-400	CL-400	1/2"	3000	0.5 ~ 8.5 (50 ~ 850)		
CFC-600	CFR-600	CL-600	3/4"	3100			

FR. FILTER REGULATOR

AFR / BFR / CFR



Model	Port Size Rc (PT)	Max. Flow L/min (ANR)	Filter Grade	Gauge Connection Rc (PT)	Pressure Range Kg/cm ² (Kpa)	Remarks
AFR-150	1/8"	650	5µm	1/8"	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -BG With bowl guard
AFR-200	1/4"	750				
BFR-200	1/4"	1000				
BFR-300	3/8"	1350		1/4"		-H Manual drainer -A Auto drainer -S Semi-Auto drainer
CFR-400	1/2"	3000				
CFR-600	3/4"	3100				

AIR FILTER

AF / BF / CF



Model	Port Size Rc (PT)	Max. Flow L/min (ANR)	Filter Grade	Pressure Range Kg/cm ² (Kpa)	Remarks
AF-150	1/8"	650	5µm	0.5 ~ 8.5 (50 ~ 850)	-H Manual drainer -A Auto drainer -BG With bowl guard
AF-200	1/4"	750			
BF-200	1/4"	1000			
BF-300	3/8"	1350			-H Manual drainer -A Auto drainer -S Semi-Auto drainer
CF-400	1/2"	3000			
CF-600	3/4"	3100			

REGULATOR

AR / BR / CR



Model	Port Size Rc (PT)	Max. Flow L/min (ANR)	Gauge Connection Rc (PT)	Pressure Range Kg/cm ² (Kpa)	Remarks
AR-150-D1	1/8"	600	1/8"	0.1 ~ 1 (10 ~ 100)	For HVLP Air Gun
AR-150	1/8"	650		Standard : 0.5 ~ 8.5 (50 ~ 850)	-L1:Low Pressure 1 Kg/cm ² -L2:Low Pressure 2 Kg/cm ² -L4:Low Pressure 4 Kg/cm ²
AR-200	1/4"	750		Low Pressure: 0.1 ~ 1 (10 ~ 100) 0.5 ~ 4 (50 ~ 400)	-L4:Low Pressure 4 Kg/cm ²
BR-200	1/4"	1000	1/4"	0.1 ~ 1 (10 ~ 100) 0.5 ~ 4 (50 ~ 400)	
BR-300	3/8"	1350			
CR-400	1/2"	3000			
CR-600	3/4"	3100		0.5 ~ 8.5 (50 ~ 850)	—

LUBRICATOR

AL / BL / CL



Model	Port Size Rc (PT)	Max. Flow L/min (ANR)	Oil Capacity L/min (ANR)	Oil Volume CC	Remarks
AL-150	1/8"	650	0 ~ 30	25	Standard : Without Bowl Guard -BG : With bowl guard (Option)
AL-200	1/4"	750			
BL-200	1/4"	1000			
BL-300	3/8"	1350	0 ~ 40	90	Standard : With Bowl Guard
CL-400	1/2"	3000			
CL-600	3/4"	3100	0 ~ 45		

PLASTIC series

PFC / PF / PFR / PL



Model	Description	Port Size Rc (PT)	Max. Flow L/min (ANR)	Remarks
PFC-200	FR.L. Unit	1/4"	800	Filter Grade : 5µm Pressure Range : 0.5~8.5 Kg/cm ² Drain Cock : Semi-Auto Drainer
PF-200	Filter			
PFR-200	Filter Regulator			
PL-200	Lubricator			

PRESSURE GAUGE

PG



Model	Connection	Port Size Rc (PT)	Pressure Range Kg/cm ² (Kpa)	Remarks
PG-05	Center Back type	1/8" (M5x0.8)	0.5 ~ 10 (50 ~ 1000)	Standard Type
PG-10	Center Back type	1/8"		Standard Type
PG-10-S	Bottom type	1/8"		—
PG-10-L	Center Back type (Low Pressure Gauge)	1/8" (M5x0.8)	0.5 ~ 4 (50 ~ 400) 0.1 ~ 1 (10 ~ 100)	1 , 2 , 4 (Kg/cm ²)
PG-20	Center Back type	1/4" (M5x0.8)	0.5 ~ 10 (50 ~ 1000)	Standard Type
PG-20-S	Bottom type			—
PG-20-F	Flange type			Fixture Type

SM series SOLENOID VALVE

SM



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SM-5101	1/8"	Single	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SM7101	1/8"			16.2 (0.9)		
SM-7102	1/4"			16.2 (0.9)		
SM-9102	1/4"			30.6 (1.7)		
SM-9103	3/8"			30.6 (1.7)		
SM-5201	1/8"	Double	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SM-7201	1/8"			16.2 (0.9)		
SM-7202	1/4"			16.2 (0.9)		
SM-9202	1/4"			30.6 (1.7)		
SM-9203	3/8"			30.6 (1.7)		
SM-5(3)01	1/8"	Double	5 Ports 3 Positions	9 (0.5)	2 ~ 7 (200 ~ 700)	
SM-7(3)01	1/8"			16.2 (0.9)		
SM-7(3)02	1/4"			16.2 (0.9)		
SM-9(3)02	1/4"			30.6 (1.7)		
SM-9(3)03	3/8"			30.6 (1.7)		

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SM series SOLENOID VALVE (Connector Type)

SM



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SM-5100-C4	Ø4	Single	5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SM-5100-C6	Ø6			9 (0.67)		
SM-5100-C8	Ø8			9 (0.67)		
SM-7100-C6	Ø6			16.2 (0.9)		
SM-7100-C8	Ø8			16.2 (0.9)		
SM-7100-C10	Ø10			16.2 (0.9)		
SM-9100-C8	Ø8			30.6 (1.7)		
SM-9100-C10	Ø10			30.6 (1.7)		
SM-9100-C12	Ø12			30.6 (1.7)		
SM-5200-C4	Ø4			Double		
SM-5200-C6	Ø6	9 (0.67)				
SM-5200-C8	Ø8	9 (0.67)				
SM-7200-C6	Ø6	16.2 (0.9)				
SM-7200-C8	Ø8	16.2 (0.9)				
SM-7200-C10	Ø10	16.2 (0.9)				
SM-9200-C8	Ø8	30.6 (1.7)				
SM-9200-C10	Ø10	30.6 (1.7)				
SM-9200-C12	Ø12	30.6 (1.7)				
SM-5(3)00-C4	Ø4	Double	5 Ports 3 Positions		9 (0.67)	
SM-5(3)00-C6	Ø6			9 (0.67)		
SM-5(3)00-C8	Ø8			9 (0.67)		
SM-7(3)00-C6	Ø6			16.2 (0.9)		
SM-7(3)00-C8	Ø8			16.2 (0.9)		
SM-7(3)00-C10	Ø10			16.2 (0.9)		
SM-9(3)00-C8	Ø8			30.6 (1.7)		
SM-9(3)00-C10	Ø10			30.6 (1.7)		
SM-9(3)00-C12	Ø12			30.6 (1.7)		

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SMB series SOLENOID VALVE (Base Mounting Type)

SMB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SMB-5101	1/8"	Single	5 Ports 2 Positions	10.8 (0.6)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SMB-7102	1/4"			18.2 (1.0)		
SMB-9103	3/8"			36 (2.0)		
SMB-5201	1/8"	Double	5 Ports 2 Positions	10.8 (0.6)	1.5 ~ 7 (150 ~ 700)	
SMB-7202	1/4"			18.2 (1.0)		
SMB-9203	3/8"			36 (2.0)		
SMB-5(3)01	1/8"	Double	5 Ports 3 Positions	10.8 (0.6)	2 ~ 7 (200 ~ 700)	
SMB-7(3)02	1/4"			18.2 (1.0)		
SMB-9(3)03	3/8"			36 (2.0)		

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SMB series SOLENOID VALVE (Base Mounting type with connector)

SMB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage			
SMB-5100-C4	Ø4	Single	5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V			
SMB-5100-C6	Ø6			9 (0.67)					
SMB-5100-C8	Ø8			9 (0.67)					
SMB-7100-C6	Ø6			16.2 (0.9)					
SMB-7100-C8	Ø8			16.2 (0.9)					
SMB-7100-C10	Ø10			16.2 (0.9)					
SMB-5200-C4	Ø4			Double			5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)
SMB-5200-C6	Ø6							9 (0.67)	
SMB-5200-C8	Ø8							9 (0.67)	
SMB-7200-C6	Ø6							16.2 (0.9)	
SMB-7200-C8	Ø8	16.2 (0.9)							
SMB-7200-C10	Ø10	16.2 (0.9)							
SMB-5(3)00-C4	Ø4	Double	5 Ports 3 Positions		9 (0.67)			2 ~ 7 (200 ~ 700)	
SMB-5(3)00-C6	Ø6				9 (0.67)				
SMB-5(3)00-C8	Ø8				9 (0.67)				
SMB-7(3)00-C6	Ø6				16.2 (0.9)				
SMB-7(3)00-C8	Ø8			16.2 (0.9)					
SMB-7(3)00-C10	Ø10			16.2 (0.9)					

SMU series 3 PORTS 2 POSITIONS SOLENOID VALVE

SMU



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SMU-510M5	M5	Single	3 Ports 2 Positions	2.16 (0.12)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SMU-7101	1/8"			12.6 (0.7)		

SMUB series 3 PORTS 2 POSITIONS SOLENOID VALVE (Base Mounting Type)

SMUB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SMUB-510M5	M5	Single	3 Ports 2 Positions	3.06 (0.17)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SMUB-5101	1/8"			3.06 (0.17)		
SMUB-7101	1/8"			11.7 (0.65)		
SMUB-7102	1/4"			11.7 (0.65)		

SR series SOLENOID VALVE

SR



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SR-310M5	M5	Single	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SR-5101	1/8"			9 (0.5)		
SR-7101	1/8"			16.2 (0.9)		
SR-7102	1/4"			16.2 (0.9)		
SR-9102	1/4"			30.6 (1.7)		
SR-9103	3/8"	30.6 (1.7)				
SR-320M5	M5	Double	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	
SR-5201	1/8"			9 (0.5)		
SR-7201	1/8"			16.2 (0.9)		
SR-7202	1/4"			16.2 (0.9)		
SR-9202	1/4"			30.6 (1.7)		
SR-9203	3/8"	30.6 (1.7)				
SR-3(3)M5	M5	Double	5 Ports 3 Positions	3.6 (0.2)	2 ~ 7 (200 ~ 700)	
SR-5(3)01	1/8"			9 (0.5)		
SR-7(3)01	1/8"			16.2 (0.9)		
SR-7(3)02	1/4"			16.2 (0.9)		
SR-9(3)02	1/4"			30.6 (1.7)		
SR-9(3)03	3/8"			30.6 (1.7)		

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SR series SOLENOID VALVE (Connector Type)

SR



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SR-3100-C4	Ø4	Single	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SR-5100-C4	Ø4			9 (0.67)		
SR-5100-C6	Ø6			9 (0.67)		
SR-5100-C8	Ø8			9 (0.67)		
SR-7100-C6	Ø6			16.2 (0.9)		
SR-7100-C8	Ø8			16.2 (0.9)		
SR-7100-C10	Ø10			16.2 (0.9)		
SR-9100-C8	Ø8			30.6 (1.7)		
SR-9100-C10	Ø10			30.6 (1.7)		
SR-9100-C12	Ø12			30.6 (1.7)		
SR-5200-C4	Ø4	Double	5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)	
SR-5200-C6	Ø6			9 (0.67)		
SR-5200-C8	Ø8			9 (0.67)		
SR-7200-C6	Ø6			16.2 (0.9)		
SR-7200-C8	Ø8			16.2 (0.9)		
SR-7200-C10	Ø10			16.2 (0.9)		
SR-9200-C8	Ø8			30.6 (1.7)		
SR-9200-C10	Ø10			30.6 (1.7)		
SR-9200-C12	Ø12			30.6 (1.7)		
SR-5(3)00-C4	Ø4			Double		
SR-5(3)00-C6	Ø6	9 (0.67)				
SR-5(3)00-C8	Ø8	9 (0.67)				
SR-7(3)00-C6	Ø6	16.2 (0.9)				
SR-7(3)00-C8	Ø8	16.2 (0.9)				
SR-7(3)00-C10	Ø10	16.2 (0.9)				
SR-9(3)00-C8	Ø8	30.6 (1.7)				
SR-9(3)00-C10	Ø10	30.6 (1.7)				
SR-9(3)00-C12	Ø12	30.6 (1.7)				

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SRB series SOLENOID VALVE (Base Mounting Type)

SRB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SRB-310M5	M5	Single	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SRB-5101	1/8"			10.8 (0.6)		
SRB-7102	1/4"			18.2 (1.0)		
SRB-9103	3/8"			36 (2.0)		
SRB-320M5	M5	Double	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	
SRB-5201	1/8"			10.8 (0.6)		
SRB-7202	1/4"			18.2 (1.0)		
SRB-9203	3/8"			36 (2.0)		
SRB-3(3)M5	M5	Double	5 Ports 3 Positions	3.6 (0.2)	2 ~ 7 (200 ~ 700)	
SRB-5(3)01	1/8"			10.8 (0.6)		
SRB-7(3)02	1/4"			18.2 (1.0)		
SRB-9(3)03	3/8"			36 (2.0)		

Note : 5 Ports 3 Positions (3) : Normally close (4) : Normally free (5) : Normally open.

SRB series SOLENOID VALVE (Base Mounting type with connector)

SRB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage			
SRB-5100-C4	Ø4	Single	5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V			
SRB-5100-C6	Ø6			9 (0.67)					
SRB-5100-C8	Ø8			9 (0.67)					
SRB-7100-C6	Ø6			16.2 (0.9)					
SRB-7100-C8	Ø8			16.2 (0.9)					
SRB-7100-C10	Ø10			16.2 (0.9)					
SRB-5200-C4	Ø4			Double			5 Ports 2 Positions	9 (0.67)	1.5 ~ 7 (150 ~ 700)
SRB-5200-C6	Ø6							9 (0.67)	
SRB-5200-C8	Ø8							9 (0.67)	
SRB-7200-C6	Ø6							16.2 (0.9)	
SRB-7200-C8	Ø8	16.2 (0.9)							
SRB-7200-C10	Ø10	16.2 (0.9)							
SRB-5(3)00-C4	Ø4	Double	5 Ports 3 Positions		9 (0.67)			2 ~ 7 (200 ~ 700)	
SRB-5(3)00-C6	Ø6				9 (0.67)				
SRB-5(3)00-C8	Ø8				9 (0.67)				
SRB-7(3)00-C6	Ø6				16.2 (0.9)				
SRB-7(3)00-C8	Ø8			16.2 (0.9)					
SRB-7(3)00-C10	Ø10			16.2 (0.9)					

Note : 5 Ports 3 Positions (3) : Normally close (4) : Normally free (5) : Normally open.

SRU series 3 PORTS 2 POSITIONS SOLENOID VALVE

SRU



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SRU-510M5	M5	Single	3 Ports	2.16 (0.12)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SRU-7101	1/8"		2 Positions	12.6 (0.7)		

SRUB series 3 PORTS 2 POSITIONS SOLENOID VALVE (Base Mounting Type)

SRUB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SRUB-5101	M5, 1/8"	Single	3 Ports	3.06 (0.17)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SRUB-7102	1/8", 1/4"		2 Positions	11.7 (0.65)		

SF500 series MANIFOLD TYPE SOLENOID VALVE

SF500



Model	Port Size Rc (PT)	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SF-310M5	M5	Ø8	Single	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SF-320M5				5 Ports 2 Positions			
SF-3(3)0M5				5 Ports 3 Positions			
SF-5101	1/8"	Ø8 · Ø10	Single	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SF-5201				5 Ports 2 Positions			
SF-5(3)01				5 Ports 3 Positions			

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SF500 series MANIFOLD TYPE SOLENOID VALVE (Connector Type)

SF500



Model	Port Size Rc (PT)	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SF-3100-C4	Ø4	Ø8	Single	5 Ports 2 Positions	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SF-3200-C4				5 Ports 2 Positions			
SF-3(3)00-C4				5 Ports 3 Positions			
SF-5100-C4	Ø4	Ø8 · Ø10	Single	5 Ports 2 Positions	9 (0.5)		
SF-5100-C6	Ø6						
SF-5100-C8	Ø8						
SF-5200-C4	Ø4						
SF-5200-C6	Ø6						
SF-5200-C8	Ø8						
SF-5(3)00-C4	Ø4	Double	5 Ports 3 Positions	5 Ports 2 Positions	9 (0.5)		
SF-5(3)00-C6	Ø6						
SF-5(3)00-C8	Ø8						

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

ST series SOLENOID VALVE

ST



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
ST-5101	1/8"	Single	5 Ports 2 Positions	12 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
ST-5201	1/8"					
ST-5231	1/8"					
ST-6101	1/8"	Single	5 Ports 2 Positions	14 (0.78)		
ST-6102	1/4"					
ST-6201	1/8"					
ST-6202	1/4"	Double	5 Ports 3 Positions	14 (0.78)		
ST-6232	1/4"					

SRK series SOLENOID VALVE

SRK



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SRK-510M5	M5	Single	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SRK-7101	1/8"					
SRK-520M5	M5	Double	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SRK-7201	1/8"					
SRK-5(3)0M5	M5	Double	5 Ports 3 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SRK-7(3)01	1/8"					

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SRK series SOLENOID VALVE (Connector Type)

SRK



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SRK-5100-C4	M5	Single	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SRK-5100-C6	M5					
SRK-7100-C6	1/8"					
SRK-7100-C8	1/8"					
SRK-5200-C4	M5	Double	5 Ports 2 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SRK-5200-C6	M5					
SRK-7200-C6	1/8"					
SRK-7200-C8	1/8"					
SRK-5(3)00-C4	M5	Double	5 Ports 3 Positions	9 (0.5)	1.5 ~ 7 (150 ~ 700)	
SRK-5(3)00-C6	M5					
SRK-7(3)00-C6	1/8"					
SRK-7(3)00-C8	1/8"					

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

SK series SOLENOID VALVE

SK



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)	Voltage
SK-5101	1/8"	Single (Piston returned)	5 Ports 2 Positions	12 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SK-6101	1/8"	Single (Spring returned)		14 (0.78)		
SK-6102	1/4"			14 (0.78)		
SK-8102	1/4"	25 (1.4)				
SK-8103	3/8"	25 (1.4)				
SK-5201	1/8"	Double	5 Ports 2 Positions	12 (0.67)	1.5 ~ 7 (150 ~ 700)	
SK-6201	1/8"					
SK-6202	1/4"					
SK-8202	1/4"					
SK-8203	3/8"					
SK-5231	1/8"			Double		5 Ports 3 Positions
SK-6231	1/8"					
SK-6232	1/4"					
SK-8232	1/4"					
SK-8233	3/8"					

Note : Standard type for 5 Ports 3 Positions is N.C (Normally Close) : N.O Normally Open is customized.

SNK series SOLENOID VALVE

SNK



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kg/cm ² (Kpa)	Voltage
SNK-6102	1/4"	Single	5 Ports 2 Positions	12(0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V
SNK-8103	3/8"			14(0.78)		
SNK-6202	1/4"	Double	5 Ports 2 Positions	12(0.67)	1.5 ~ 7 (150 ~ 700)	AC 110V AC 220V
SNK-8203	3/8"			14(0.78)		

SKU series 3 PORTS 2 POSITIONS SOLENOID VALVE

SKU



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kg/cm ² (Kpa)	Voltage
SKU-5101	1/8"	Single	3 Ports 2 Positions	12 (0.67)	1 ~ 7 (100 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SKU-6101	1/8"			14 (0.78)		
SKU-6102	1/4"			14 (0.78)		
SKU-8102	1/4"			25 (1.4)		
SKU-8103	3/8"			25 (1.4)		

SV series SOLENOID VALVE

SV



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kg/cm ² (Kpa)	Voltage
SV-5101	1/8"	Single (Piston returned)	5 Ports 2 Positions	12 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SV-6101	1/8"	Single (Spring returned)		14 (0.78)		
SV-6102	1/4"			14 (0.78)		
SV-8102	1/4"			25 (1.4)		
SV-8103	3/8"			25 (1.4)		
SV-9104	1/2"	50 (2.78)				
SV-5201	1/8"	Double	5 Ports 2 Positions	12 (0.67)	1.5 ~ 7 (150 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SV-6201	1/8"			14 (0.78)		
SV-6202	1/4"			14 (0.78)		
SV-8202	1/4"			25 (1.4)		
SV-8203	3/8"			25 (1.4)		
SV-9204	1/2"	50 (2.78)				
SV-5231	1/8"	Double N.O. Normally Open	5 Ports 3 Positions	12 (0.67)	2 ~ 7 (200 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SV-6231	1/8"			14 (0.78)		
SV-6232	1/4"			14 (0.78)		
SV-8232	1/4"			25 (1.4)		
SV-8233	3/8"			25 (1.4)		
SV-9234	1/2"	N.F. Normally Free	50 (2.78)			

Note : Standard type for 5 Ports 3 Positions is N.C (Normal Close) : N.O Normal Open is Custom.

SN series SOLENOID VALVE

SN



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Pressure Range Kg/cm ² (Kpa)	Voltage
SN-8102	1/4"	Single (Spring returned)	5 Ports 2 Positions	18 (1.0)	1 ~ 7 (100 ~ 700)	DC 12V DC 24V AC 110V AC 220V
SN-8202		Double				

SV310 series SOLENOID VALVE

SV310



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Voltage
SV-310	1/8"	Single	3 Ports 2 Positions	1.5 (0.08)	DC 24V AC 110V AC 220V

SKB series 2 PORTS SOLENOID VALVE (Direct operated)

SKB



Model	Port Size Rc (PT)	Coil type	Type of actuation	Orifice mm ² (Cv)	Voltage
SKB-310M5	M5	Single	3 Ports 2 Positions	0.15	DC 24V
SKB-3101	1/8"				

SBS series 2 PORTS SOLENOID VALVE

SBS



Model	Port Size Rc (PT)	Operation	Orifice mm (Cv)	Suitable Fluid Type				Voltage
				Air	Water	Hot Water	Oil Gas Vacuum	
SBS - 01	1/8"	Direct Operated (General) Stainless steel nonferrous	4.9 (0.27)	0 ~ 7	—			DC 24V AC 110V AC 220V
SBS - C6	Ø6							

Note : 1. Standard type : air , water. 2. Custom made for oil , gas , vacuum type.

SU series 2 PORTS SOLENOID VALVE

SU



Model	Max.Pressure	Inner port size	Weight (kg)	IN Port	OUT Port	Flow rate (Cv)	Voltage
SU - 12	1.0 Mpa	Ø1.6	0.05	Ø4	Ø4	0.07	DC12/24V
SU - 22	1.0 Mpa	Ø3.2	0.08	Ø6	Ø6	0.3	DC12/24V

SFW series 2 PORTS SOLENOID VALVE

SFW



Model	Max.Pressure	Inner port size	Weight (kg)	IN Port	OUT Port	Flow rate (Cv)	Voltage
SFW - 30	1.0 Mpa	Ø3.0	0.1	Ø4	Ø4	0.3	DC12/24V
				Ø6	Ø6		
				Ø8	Ø8		
SFW - 40	1.0 Mpa	Ø6.0	0.23	Ø10	Ø10	1.1	DC12/24V

2 PORTS SOLENOID VALVE

SUD, SUW, SUS, SAS, SDC

Model	Port Size Rc (PT)	Operation	Orifice mm (Cv)	Suitable Fluid Type						Voltage
				Air	Water	Hot Water	Oil	Gas	Vacuum	
SUD - 6	1/8"	Direct Operated (General)	2.5 (0.23)	0 ~ 7						DC 24V AC 110V AC 220V
SUD - 8	1/4"		4 (0.60)	0 ~ 10						
SUD - 10	3/8"		1.2 (0.18)	0 ~ 20						
SUD - 6H	1/8"		2.0 (0.45)							
SUD - 8H	1/4"		10 (2.4)							
SUD - 10H	3/8"	Diaphragm Type (High Flow)	15 (4.5)	0~7	0 ~ 5	—	0~5	0 ~ 7	DC 24V AC 110V AC 220V	
SUD - 10H	3/8"		20 (8.6)							
SUW - 10	3/8"		25 (12)							
SUW - 15	1/2"		35 (24)							
SUW - 20	3/4"		40 (28)							
SUW - 25	1"		50 (48)							
SUW - 35	1 1/2"		17 (4.0)							
SUW - 40	1 1/2"		17 (6.0)							
SUW - 50	2"		22 (12)							
SUW - 50	2"		30 (18)							
SUS - 10	1/2"	Direct Operated High Temperature steam	32 (22)	0.5 ~ 1.5						DC 24V AC 110V AC 220V
SUS - 20	3/4"		50 (48)							
SUS - 25	1"		2.5 (0.23)							
SUS - 35	1 1/4"		4 (0.58)							
SUS - 40	1 1/2"		15 (4.5)							
SAS - 6A	1/8"	Direct Operated (General) Stainless steel nomenclon	20 (8.6)	0 ~ 10						DC 24V AC 110V AC 220V
SAS - 8A	1/4"		25 (12)							
SAS - 10A	3/8"		35 (24)							
SAS - 15A	1/2"		40 (28)							
SAS - 20A	3/4"		50 (48)							
SAS - 25A	1"	Diaphragm Type (High Flow) Stainless steel nomenclon	0~7	0 ~ 5						DC 24V AC 110V AC 220V
SAS - 35A	1 1/4"		6.5 (0.28)							
SAS - 40A	1 1/2"		6.5 (0.28)							
SAS - 50A	2"		13 (4)							
SDC - 8	1/4"		Diaphragm Type (Able to bear the strong acid) PVC	0 ~ 1						
SDC - 10	3/8"	6.5 (0.28)								
SDC - 15	1/2"	Diaphragm Type (Able to bear the strong acid) PTFE	0 ~ 1							DC 24V AC 110V AC 220V
SDC - 8-TF	1/4"		6.5 (0.28)							
SDC - 10-TF	3/8"		13 (4)							
SDC - 15-TF	1/2"									
SDC - 20-TF	3/4"									

Note : 1. Standard type : air , water. 2. Custom made for oil , gas , vacuum type.



MV100 series HAND OPERATED VALVE

MV100

Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-10-02-V	1/8"	2 Ports 2 Positions	14 (0.78)	Side connection	Press button type
MV-10-03-V		3 Ports 2 Positions			Press button type
MV-10-02-P	1/8"	2 Ports 2 Positions	14 (0.78)	Side connection	Toggle lever type
MV-10-03-P		3 Ports 2 Positions			Toggle lever type



MV110 series HAND OPERATED VALVE

MV110

Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-11-03-01	1/8"	5 Ports 2 Positions	1.9	Side connection	Press button type
MV-11-03-02					Push button type
MV-11-03-03					Two way push button



MV130 series MECHANICAL VALVE

MV130



Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-13-03-01	1/8"	3 Ports 2 Positions	4.5	Side connection	Press button type
MV-13-03-02					Push button type
MV-13-05-01					5 Ports 2 Positions
MV-13-05-02	Push button type				
MV-13-05-03	Two way push button				

MV150 series MECHANICAL VALVE

MV150



Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-15-□-01	1/8"	3 Ports 2 Positions	7 (0.39)	S:Side Connection B:Bottom Connection F:With flange Base	Basic Type
MV-15-□-02					Roller Lever
MV-15-□-03					One Way Roller Lever
MV-15-□-04					Toggle Lever
MV-15-□-05					Tumb Lever
MV-15-□-06					Push Button (Flush)
MV-15-□-07					Push Button (Extended)
MV-15-□-08					Push Button (Mushroom)
MV-15-□-09					Stop Cook Button
MV-15-□-10					Twist Selector (2 Positions)
MV-15-□-11					Key Selector (2 Positions)

MV200 series MECHANICAL VALVE

MV200



Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-20-□-01	1/4"	3 Ports 2 Positions	33 (1.83)	Side connection	Basic Type
MV-20-□-02					Roller Lever
MV-20-□-03					One Way Roller Lever
MV-20-□-06					Push Button (Flush)
MV-20-□-07					Push Button (Extended)
MV-20-□-08					Push Button (Mushroom)
MV-20-□-09					Stop Cook Button
MV-20-□-10					Twist Selector (2 Positions)
MV-20-□-11					Key Selector (2 Positions)

MV230 series MECHANICAL VALVE

MV230



Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-23-06	1/8"	5 Ports 2 Positions	12 (0.67)	Side connection	Push Button (Flush)
MV-23-07					Push Button (Extended)
MV-23-08					Push Button (Mushroom)
MV-23-09					Stop Cook Button
MV-23-10					Twist Selector (2 Positions)
MV-23-11					Key Selector (2 Positions)

MV250 series MECHANICAL VALVE

MV250



Model	Port Size Rc (PT)	Type of actuation	Orifice mm ² (Cv)	Connection Type	Remarks
MV-25-06	1/8" 1/4"	5 Ports 2 Positions	14 (0.78)	Side connection	Push Button (Flush)
MV-25-07					Push Button (Extended)
MV-25-08					Push Button (Mushroom)
MV-25-09					Stop Cook Button
MV-25-10					Twist Selector (2 Positions)
MV-25-11					Key Selector (2 Positions)

PM series PILOT VALVE

PM



Model	Port Size Rc (PT)	Air Pilot type	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PM-310M5	M5	Single Air pilot	5 Ports 2 Positions	Air	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)
PM-5101	1/8"				9 (0.5)	
PM-7101	1/8"				16.2 (0.9)	
PM-7102	1/4"				16.2 (0.9)	
PM-9102	1/4"				30.6 (1.7)	
PM-9103	3/8"	30.6 (1.7)				
PM-320M5	M5	Double Air pilot	5 Ports 2 Positions	Air	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)
PM-5201	1/8"				9 (0.5)	
PM-7201	1/8"				16.2 (0.9)	
PM-7202	1/4"				16.2 (0.9)	
PM-9202	1/4"				30.6 (1.7)	
PM-9203	3/8"	30.6 (1.7)				
PM-3(3)0M5	M5	Double Air pilot	5 Ports 3 Positions	Air	3.6 (0.2)	2 ~ 7 (200 ~ 700)
PM-5(3)01	1/8"				9 (0.5)	
PM-7(3)01	1/8"				16.2 (0.9)	
PM-7(3)02	1/4"				16.2 (0.9)	
PM-9(3)02	1/4"				30.6 (1.7)	
PM-9(3)03	3/8"	30.6 (1.7)				

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

PM series PILOT VALVE (Connector Type)

PM



Model	Port Size Rc (PT)	Air Pilot type	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PM-3100-C4	Ø4	Single Air pilot	5 Ports 2 Positions	Air	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)
PM-5100-C4	Ø4				9 (0.5)	
PM-5100-C6	Ø6				9 (0.5)	
PM-5100-C8	Ø8				9 (0.5)	
PM-7100-C6	Ø6				16.2 (0.9)	
PM-7100-C8	Ø8	16.2 (0.9)				
PM-7100-C10	Ø10	16.2 (0.9)				
PM-9100-C8	Ø8	30.6 (1.7)				
PM-9100-C10	Ø10	30.6 (1.7)				
PM-9100-C12	Ø12	30.6 (1.7)				
PM-5200-C4	Ø4	Double Air pilot	5 Ports 2 Positions	Air	9 (0.5)	1.5 ~ 7 (150 ~ 700)
PM-5200-C6	Ø6				9 (0.5)	
PM-5200-C8	Ø8				9 (0.5)	
PM-7200-C6	Ø6				16.2 (0.9)	
PM-7200-C8	Ø8				16.2 (0.9)	
PM-7200-C10	Ø10	16.2 (0.9)				
PM-9200-C8	Ø8	30.6 (1.7)				
PM-9200-C10	Ø10	30.6 (1.7)				
PM-9200-C12	Ø12	30.6 (1.7)				
PM-5(3)00-C4	Ø4	Double Air pilot	5 Ports 3 Positions	Air	9 (0.5)	2 ~ 7 (200 ~ 700)
PM-5(3)00-C6	Ø6				9 (0.5)	
PM-5(3)00-C8	Ø8				9 (0.5)	
PM-7(3)00-C6	Ø6				16.2 (0.9)	
PM-7(3)00-C8	Ø8				16.2 (0.9)	
PM-7(3)00-C10	Ø10	16.2 (0.9)				
PM-9(3)00-C8	Ø8	30.6 (1.7)				
PM-9(3)00-C10	Ø10	30.6 (1.7)				
PM-9(3)00-C12	Ø12	30.6 (1.7)				

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

PMU series PILOT VALVE

PMU



Model	Port Size Rc (PT)	Air Pilot type	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PMU-510M5	M5	Single Air pilot	3 Ports 2 Positions	Air	2.16 (0.12)	1.5 ~ 7 (150 ~ 700)
PMU-7101	1/8"				12.6 (0.7)	

PMB series PILOT VALVE (Base Mounting Type)

PMB



Model	Port Size Rc (PT)	Air Pilot type	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PMB-310M5	M5	Single Air pilot	5 Ports 2 Positions	Air	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)
PMB-5101	1/8"				10.8 (0.6)	
PMB-7102	1/4"				18.2 (1.0)	
PMB-9103	3/8"				36 (2.0)	
PMB-320M5	M5	Double Air pilot	5 Ports 2 Positions	Air	3.6 (0.2)	1.5 ~ 7 (150 ~ 700)
PMB-5201	1/8"				10.8 (0.6)	
PMB-7202	1/4"				18.2 (1.0)	
PMB-9203	3/8"				36 (2.0)	
PMB-3(3)M5	M5	Double Air pilot	5 Ports 3 Positions	Air	3.6 (0.2)	2 ~ 7 (200 ~ 700)
PMB-5(3)01	1/8"				10.8 (0.6)	
PMB-7(3)02	1/4"				18.2 (1.0)	
PMB-9(3)03	3/8"				36 (2.0)	

Note : 5 Ports 3 Positions (3) Normally close (4) Normally free (5) Normally open.

PMUB series PILOT VALVE (Base Mounting Type)

PMUB



Model	Port Size Rc (PT)	Air Pilot type	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PMUB-510M5	M5	Single Air pilot	3 Ports 2 Positions	Air	3.06 (0.17)	1.5 ~ 7 (150 ~ 700)
PMUB-5101	1/8"				3.06 (0.17)	
PMUB-7101	1/8"				11.7 (0.65)	
PMUB-7102	1/4"				11.7 (0.65)	

PN series PILOT VALVE

PN



Model	Port Size Rc (PT)	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PN-8102	1/4"	5 Ports 2 Positions	Air (Spring returned)	18 (1.0)	1.5 ~ 7 (150 ~ 700)
PN-8202			Air		

PV series PILOT VALVE

PV



Model	Port Size Rc (PT)	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf/cm ² (Kpa)
PV-5101	1/8"	5 Ports 2 Positions	Air	12 (0.67)	1.5 ~ 7 (150 ~ 700)
PV-6101	1/8"			14 (0.78)	
PV-6102	1/4"			14 (0.78)	
PV-8102	1/4"			25 (1.4)	
PV-8103	3/8"			25 (1.4)	
PV-9104	1/2"	50 (2.78)			
PV-5201	1/8"	5 Ports 2 Positions	Air	12 (0.67)	1.5 ~ 7 (150 ~ 700)
PV-6201	1/8"			14 (0.78)	
PV-6202	1/4"			14 (0.78)	
PV-8202	1/4"			25 (1.4)	
PV-8203	3/8"			25 (1.4)	
PV-9204	1/2"	50 (2.78)			
PV-5101-TA	1/8"	3 Ports 2 Positions	Air	12 (0.67)	2 ~ 7 (200 ~ 700)
PV-5101-TB	1/4"			12 (0.67)	
PV-6101-TA	1/8"			14 (0.78)	
PV-6102-TB	1/4"			14 (0.78)	
PV-6231	1/8"			14 (0.78)	
PV-6232	1/4"	14 (0.78)			

HVL series HAND-OPERATED VALVE

HVL



Model	Port Size Rc (PT)	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
HVL - 601	1/8"	5 Ports 2 Positions	Manual, Front and End swinging	14 (0.78)	0 ~ 7 (0 ~ 700)
HVL - 602	1/4"			14 (0.78)	
HVL - 802	1/4"			18 (1.0)	
HVL - 803	3/8"			18 (1.0)	
HVL - 631	1/8"	5 Ports 3 Positions	Manual, Front and End swinging	14 (0.78)	
HVL - 632	1/4"			18 (1.0)	
HVL - 832	1/4"			18 (1.0)	
HVL - 833	3/8"			50 (2.78)	

HVM series HAND-OPERATED VALVE

HVM



Model	Port Size Rc (PT)	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
HVM - 402	1/4"	4 Ports 3 Positions	Manual, Left and Right swinging	17 (0.94)	0 ~ 7 (0 ~ 700)
HVM - 403	3/8"				
HVM - 404	1/2"				

HVT series HAND-OPERATED VALVE

HVT



Model	Port Size Rc (PT)	Type of actuation	Operation	Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
HVT - 200 - 6A	1/8"	4 Ports 3 Positions	Manual, Left and Right swinging	17 (0.94)	0 ~ 7 (0 ~ 700)
HVT - 200 - 8A	1/4"				

FVA series FOOT VALVE

FVA



Model	Port Size Rc (PT)	Type of actuation	Max. Pressure Kgf / cm ²	Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
FVA - 320	1/4"	3 Ports 2 Positions	10	8	0 ~ 7 (0 ~ 700)
FVA - 420		4 Ports 2 Positions			

FVS series FOOT VALVE

FVS



Model	Port Size Rc (PT)	Type of actuation	Max. Pressure Kgf / cm ²	Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
FVS - 320	1/4"	3 Ports 2 Positions	10	12	0 ~ 7 (0 ~ 700)
FVS - 520		5 Ports 2 Positions			

QE series QUICK EXHAUST VALVE

QE



Model	Port Size Rc (PT)	Flow Rate L/min		Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
		P → A	A → R		
QE - 802	1/4"	1000	1500	14 (0.78)	1 ~ 7 (100 ~ 700)
QE - 803	3/8"	1000	1500	18 (1.0)	

QEH series QUICK EXHAUST VALVE (Exhaust to air)

QEH



Model	Port Size Rc (PT)	Flow Rate L/min		Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
		P → A	A → R		
QEH - 4	Ø4	85	100	1.5	1 ~ 7
QEH - 6	Ø6	190	200	3.5	

QEU series QUICK EXHAUST VALVE (Tube exhaust)

QEU



Model	Port Size Rc (PT)	Flow Rate L/min		Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
		P → A	A → R		
QEU - 4	Ø4	85	100	1.5	1 ~ 7
QEU - 6	Ø6	190	200	3.5	

QEUC series QUICK EXHAUST VALVE (Exhaust to air)

QEUC



Model	Port Size Rc (PT)	Flow Rate L/min		Orifice mm ² (Cv)	Pressure Range Kgf / cm ² (Kpa)
		P → A	A → R		
QEUC - 4	Ø4	85	90	1.5	1 ~ 7
QEUC - 6	Ø6	190	200	3.5	

SC series SPEED CONTROLLER

SC



Model	Port Size Rc (PT)	Flow Rate L/min		Pressure Range Kgf/cm ² (Kpa)	Applicable Cylinder
		Control side	Free side		
ASC-150-01	1/8"	250	340	1 ~ 9 (100 ~ 900)	Ø12, Ø16, Ø20, Ø25, Ø32
ASC-150-02	1/4"	250	340		
BSC-300-02	1/4"	800	800		Ø32, Ø40, Ø50, Ø63
BSC-300-03	3/8"	800	800		
CSC-400-03	3/8"	1650	1650		Ø50, Ø63, Ø80, Ø100, Ø125
CSC-400-04	1/2"	1650	1650		

NA series CARTRIDGE CYLINDER

NA



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm/s	Pressure Range Kgf/cm ² (Kpa)	Standard Stroke mm
NA-12	12	5.6	Single Acting	Panel sert	50 ~ 500	1 ~ 7 (100 ~ 700)	5,10,15
NA-16	16	10					
NAD-12	12	5.6	Double Acting	Panel sert	50 ~ 500	1 ~ 7 (100 ~ 700)	5,10,15
NAD-16	16	10					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NA2 series CARTRIDGE CYLINDER

NA2



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm/s	Pressure Range Kgf/cm ² (Kpa)	Standard Stroke mm
NA2B-6	6	1.4	Single Acting	Panel sert	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5,10,15
NA2B-10	10	3.9					
NA2B-12	12	5.6					
NA2B-16	16	10					
NA2S-6	6	1.4	Single Acting	Embedded type	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5,10,15
NA2S-10	10	3.93					
NA2S-12	12	5.6					
NA2S-16	16	10					
NA2T-6	6	1.4	Single Acting	Panel sert	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5,10,15
NA2T-10	10	3.93					
NA2T-12	12	5.6					
NA2T-16	16	10					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NB series CARTRIDGE CYLINDER

NB



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm/s	Pressure Range Kgf/cm ² (Kpa)	Standard Stroke mm
NB-6	6	1.4	Double Acting	Panel sert	50 ~ 500	1 ~ 8.5 (100 ~ 850)	5 ~ 25
NB-10	10	3.9					5 ~ 40
NB-16	16	10					5 ~ 40

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NU series FREE MOUNT CYLINDER

NU



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm/s	Pressure Range Kgf/cm ² (Kpa)	Standard Stroke mm
NU-6	6	1.4	Double Acting	Side Front	50 ~ 500	1.5 ~ 7 (150 ~ 700)	4 ~ 15
NU-8	8	2.5					4 ~ 20
NU-10	16	3.9					4 ~ 20

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

ND series FREE MOUNT CYLINDER

ND



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
ND-16	16	10	Single Acting	Horizontal	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 30
ND-20	20	15		Vertical			
ND-25	25	24	Double Acting	Side	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 60
ND-32	32	40		Flange			
ND-40	40	62		Flange			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NQ series FREE MOUNT CYLINDER

NQ



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
NQ-06	6	1.4	Single Acting	Horizontal	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10-30
NQ-10	10	4					
NQ-16	16	10					
NQ-20	20	15					
NQ-25	25	24	Double Acting	Vertical	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10-60
NQ-32	32	40					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NQT series FREE MOUNT CYLINDER (Non - Rotating)

NQT



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
NQT-10	10	4	Single Acting	Horizontal	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 30
NQT-16	16	10		Vertical			
NQT-20	20	15	Double Acting	Side	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 60
NQT-25	25	24					
NQT-32	32	40					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

NQDK series FREE MOUNT CYLINDER (Vacuum Pad)

NQDK



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
NQDK-20	20	13	Single Acting	Horizontal	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 60
NQDK-25	25	20		Vertical			
NQDK-32	32	34	Double Acting	Side	50 ~ 700	1.5 ~ 8.5 (150 ~ 850)	10 ~ 60

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

MSI series MINI COMPACT CYLINDER

MSI



Model	Port Size Rc (PT)	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Max.Service Pressure Kgf / cm ² (Kpa)
MSI - 06	M3 x 0.5	Single Acting	50 ~ 500	2 ~ 7 (200 ~ 700)	9.5 (950)
MSI - 10	M5 x 0.8				

JD series COMPACT CYLINDER

JD



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm			
JD-6	6	1.4	Double Acting	50 ~ 500	2 ~ 7 (200 ~ 700)	5 ~ 30			
JD-10	10	3.9				5 ~ 50			
JD-12	12	5.6			5 ~ 100				
JD-16	16	10							
JD-20	20	15							
JD-25	25	24							
JD-32	32	40		50 ~ 350	1 ~ 7 (100 ~ 700)	5 ~ 150			
JD-40	40	62							
JD-50	50	98							
JD-63	63	155		50 ~ 250	1 ~ 7 (100 ~ 700)	5 ~ 150			
JD-80	80	251							
JD-100	100	392							
JD-125	125	613							
JSI(O)-12	12	5.6	Single Acting				50 ~ 500	2 ~ 7 (200 ~ 700)	5 ~ 30
JSI(O)-16	16	10							
JSI(O)-20	20	15							
JSI(O)-25	25	24							
JSI(O)-32	32	40							
JSI(O)-40	40	62							
JSI(O)-50	50	98							

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JDD / JDAD / JDAR series COMPACT CYLINDER (Adjustable)

JDD



Model	Bore Size Ø mm	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Adjustable Stroke mm	Standard Stroke mm
JDD	20,25,32,40 50,63,80,125	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	—	5 ~ 50
JDAD	20,25,32,40 50,63,80,100				25,40	30,50,75,100
JDAR	20,25,32,40 50,63				10	Ø20 ~ Ø32 (5 ~ 100) Ø40 ~ Ø63 (5 ~ 150)

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JDF series FREE MOUNT COMPACT CYLINDER

JDF



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JDF-20	20	15	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	10,20,30,40,50 60,75,85,100
JDF-25	25	24				
JDF-32	32	40				
JDF-40	40	62				
JDF-50	50	98				
JDF-63	63	155				
JDF-80	80	251		50 ~ 350	1 ~ 7 (100 ~ 700)	
JDF-100	100	392				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JDM series TANDEM COMPACT CYLINDER

JDM



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JDM-20	20	30	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	10,20,30,40,50 60,75,85,100
JDM-25	25	48				
JDM-32	32	80				
JDM-40	40	124				
JDM-50	50	196				
JDM-63	63	310				
JDM-80	80	502		50 ~ 350	1 ~ 7 (100 ~ 700)	
JDM-100	100	784				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JDW series COMPACT CYLINDER WITH DUSTY RING

JDW



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JDW-20	20	15	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 100
JDW-25	25	24				
JDW-32	32	40				
JDW-40	40	62				
JDW-50	50	98				
JDW-63	63	155				
JDW-80	80	251		50 ~ 350	1 ~ 7 (100 ~ 700)	
JDW-100	100	392				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JG series COMPACT CYLINDER (Dust Proof)

JG



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke (with magnet) mm
JG-20	20	15	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	10,20,30,40,50 60,75,90
JG-25	25	24				
JG-32	32	40				
JG-40	40	62				
JG-50	50	98				
JG-63	63	155				
JG-80	80	251		50 ~ 350	1 ~ 7 (100 ~ 700)	
JG-100	100	392				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JGD series COMPACT CYLINDER (Dust Proof - Adjustable)

JGD



Model	Bore Size Ø mm	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Adjustable Stroke mm	Standard Stroke (with magnet) mm	
JGD JGAD	20	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	JGD — JGAD 25,40	JGD 10,20,30,40,50 JGAD 20,30,50,75,90	
	25						
	32						
	40						
	50						
	63						
JGAR	80		50 ~ 250	1 ~ 7 (100 ~ 700)	1.5 ~ 7 (150 ~ 700)	JGAR 10	JGAR 10,20,30,40,50, 65,75,90
	100						
	20						
	25						
	32						
	40						
50							
63							

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JTD series TWIN-GUIDE CYLINDER

JTD



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Guide Type	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JTD-20	20	15	Bush Guide	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 50
JTD-25	25	24					
JTD-32	32	40					
JTD-40	40	62			50 ~ 350	1 ~ 7 (100 ~ 700)	5 ~ 100
JTD-50	50	98					
JTD-63	63	155					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JTF series TWIN - GUIDE CYLINDER (Flange type)

JTF



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Guide Type	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JTF-20	20	15	Bush Guide	Double Acting	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 50
JTF-25	25	24					
JTF-32	32	40					
JTF-40	40	62			50 ~ 350	1 ~ 7 (100 ~ 700)	5 ~ 100
JTF-50	50	98					
JTF-63	63	155					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JCB series TWIN-GUIDE CYLINDER (Side Mounting type)

JCB



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Guide Type	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JCB-12	12	5.6	Bush Guide	±0.09	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 100
JCB-16	16	10					
JCB-20	20	15					
JCB-25	25	24					
JCB-32	32	40					
JCB-40	40	62			50 ~ 350	1 ~ 7 (100 ~ 700)	5 ~ 150
JCB-50	50	98					
JCB-63	63	155					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JCF series TWIN-GUIDE CYLINDER (Flange type)

JCF



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Guide Type	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JCF-20	20	15	Bush Guide	±0.09	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 100
JCF-25	25	24					
JCF-32	32	40					
JCF-40	40	62			50 ~ 350	1 ~ 7 (100 ~ 700)	5 ~ 150
JCF-50	50	98					
JCF-63	63	155					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JE series COMPACT CYLINDER

JE



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Bearing Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JE-12	12	5.6	Bush Guide	50 ~ 500	2 ~ 7 (200 ~ 700)	25,50,75,100
JE-16	16	10				
JE-20	20	15				
JE-25	25	24				
JE-32	32	40				
JE-40	40	62		50 ~ 350	1 ~ 7 (100 ~ 700)	25,50,75,100 125,150
JE-50	50	98				
JE-63	63	155				
JE-80	80	251				
JE-100	100	392				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

JEK series COMPACT CYLINDER

JEK



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Bearing Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
JEK-12	12	5.6	Bush Guide	50 ~ 500	2 ~ 7 (200 ~ 700)	25,50,75,100
JEK-16	16	10				
JEK-20	20	15				
JEK-25	25	24				
JEK-32	32	40				
JEK-40	40	62		50 ~ 350	1 ~ 7 (100 ~ 700)	25,50,75,100 125,150
JEK-50	50	98				
JEK-63	63	155				
JEK-80	80	251				
JEK-100	100	392				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STB series STOPPER CYLINDER

STB



Model	Rod Size Ø mm	Bore Size Ø mm	Operation	Theoretical Thrust Kgf	Load force Kgf	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STB-32	20	32	Double Acting	40	25	1 ~ 9 (100 ~ 900)	10,15,20 mm
STB-40	25	40		62	30		20,25,30 mm
STB-50	25	50	Single Acting	98	50		20,25,30 mm

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STC series STOPPER CYLINDER

STC



Model	Rod Size Ø mm	Bore Size Ø mm	Operation	Theoretical Thrust Kgf	Load force Kgf	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STC-32	20	32	Double Acting	40	25	1 ~ 9 (100 ~ 900)	10,15,20 mm
STC-40	25	40		62	30		20,25,30 mm
STC-50	25	50	Single Acting	98	50		20,25,30 mm

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STD series STOPPER CYLINDER

STD



Model	Rod Size Ø mm	Bore Size Ø mm	Operation	Theoretical Thrust Kgf	Load force Kgf	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STD-32	20	32	Double Acting	40	25	1 ~ 9 (100 ~ 900)	10,15,20 mm
STD-40	25	40		62	30		20,25,30 mm
STD-50	25	50	Single Acting	98	50		20,25,30 mm

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STDL series STOPPER CYLINDER

STDL



Model	Rod Size Ø mm	Bore Size Ø mm	Operation	Theoretical Thrust Kgf	Load force Kgf	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STDL-32	20	32	Double Acting	40	25	1 ~ 9 (100 ~ 900)	10,15,20 mm
STDL-40	25	40		62	30		20,25,30 mm
STDL-50	25	50	Single Acting	98	50		20,25,30 mm

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STF series STOPPER CYLINDER

STF

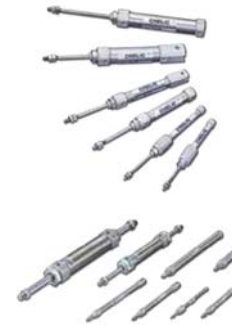


Model	Rod Size Ø mm	Bore Size Ø mm	Operation	Theoretical Thrust Kgf	Load force Kgf	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STF-32	20	32	Double Acting	40	80	1 ~ 9 (100 ~ 900)	20 mm
STF-50	30	50		Single Acting	98		550

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

SBA series PEN CYLINDER

SBA



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
SBA-10	10	3.0	Double Acting	Standard Type	50 ~ 700	7 (700)	15,30,45,60, 75,100,125, 150,175,200
SBA-16	16	10					
SBR-06	6	1.4					
SBR-10	10	3.0					
SBR-16	16	10					
SBB-10	10	3.0					
SBB-16	16	10	Single Acting Normally In	FA Type LB Type CA Type	50 ~ 700	15,30,45,60	
SBD-10	10	3.0					
SBD-16	16	10					
SBAI-10	10	4.0					
SBAI-16	16	10					
SBRI-06	6	1.4					
SBRI-10	10	3.0	Single Acting Normally Out	FA Type LB Type CA Type	50 ~ 700	15,30,45,60	
SBRI-16	16	10					
SBBI-10	10	3.0					
SBBI-16	16	10					
SBRO-06	6	1.0					
SBRO-10	10	3.0					
SBRO-16	16	10				15,30,45,60	

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

SDA series MINIATURE CYLINDER (Stainless Steel Tube)

SDA



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
SDA-12	12	5.7	Standard : Double Acting	Standard Type FA Type FB Type LB Type CB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 150
SDA-16	16	10					
SDA-20	20	15					
SDA-25	25	24					
SDA-32	32	40	SDAI : Single Acting (Normally In)	Standard Type FA Type FB Type LB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 300
SDA-40	40	62					
SDAD-20	20	13					
SDAD-25	25	20					
SDAD-32	32	34	Double Acting (Double Rod)	Standard Type FA Type FB Type LB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 200
SDAD-40	40	52					
SDAL-20	20	13	Double Acting (Adjustable stroke)	Standard Type FA Type FB Type LB Type CB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	Adjustable Stroke: 25,50
SDAL-25	25	20					
SDAL-32	32	34					
SDAL-40	40	52					
SDAF(M)-20	20	13 (26)	SDAF : Multi-position cylinder SDAM : Tandem cylinder	Standard Type FA Type FB Type LB Type CB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	Max.Stroke: 200mm
SDAF(M)-25	25	20 (40)					
SDAF(M)-32	32	34 (68)					
SDAF(M)-40	40	52 (104)					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

SDX series MINIATURE CYLINDER (Stainless Steel Tube)

SDX



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
SDX-20	20	15	Standard : Double Acting	Standard Type	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 300
SDX-25	25	24					
SDX-32	32	40					
SDX-40	40	62					
SDXD-20	20	13	Double Acting (Double Rod)	FA Type FB Type LB Type CB Type	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 200
SDXD-25	25	20					
SDXD-32	32	34					
SDXD-40	40	52					
SDXL-20	20	13	Double Acting (Adjustable stroke)	Standard Type	50 ~ 700	1 ~ 7 (100 ~ 700)	Adjustable Stroke: 25,50
SDXL-25	25	20					
SDXL-32	32	34					
SDXL-40	40	52					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

DBS2 series BLOCK CYLINDER

DBS2



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DBS2-20	20	15	Double Acting	Side Mount	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 300 (500)
DBS2-25	25	24					
DBS2-32	32	40					
DBS2-40	40	62					

Note : 1. Theoretical Thrust :When air supply to be 5 Kg/cm².
2. Bore size change from Ø30 to Ø32.
3. The material of barrel change from aluminum to stainless steel.

DBF2 series BLOCK CYLINDER

DBF2



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DBF2-20	20	15	Double Acting	Vertical Mount	50 ~ 700	1 ~ 7 (100 ~ 700)	25 ~ 300 (500)
DBF2-25	25	24					
DBF2-32	32	40					
DBF2-40	40	62					

Note : 1. Theoretical Thrust :When air supply to be 5 Kg/cm².
2. Bore size change from Ø30 to Ø32.
3. The material of barrel change from aluminum to stainless steel.

FDA series MINIATURE CYLINDER (Aluminum Tube)

FDA



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
FDA-20	20	15	Standard : Double Acting	Standard Type	50 ~ 700	1 ~ 9 (100 ~ 900)	25 ~ 300
FDA-30	30	40					
FDA-40	40	62	Double Acting (Double Rod)	FA Type FB Type LB Type CB Type	50 ~ 700	1 ~ 9 (100 ~ 900)	25 ~ 300 (500)
FDAD-20	20	13					
FDAD-30	30	40					
FDAD-40	40	52					

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

DBT series BLOCK TWINROD CYLINDER

DBT



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Mounting type	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DBT-25	25	24	Vertical	±0.1	50 ~ 700	1 ~ 9 (100 ~ 900)	25 ~ 300 (500)
DBT-30	30	34	Parallel	±0.09			
DBT-40	40	62	Side	±0.08			

Note : 1. Non-Rotating Accuracy · θ angle when stroke =100mm.
2. Theoretical Thrust : When air supply to be 5 Kg/cm²

DN series STANDARD CYLINDER

DN



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DN-32	32	40	Double Acting	Standard Type	50 ~ 700	1.5 ~ 9 (150 ~ 900)	50 ~ 300
DN-40	40	62					50 ~ 400
DN-50	50	98					50 ~ 500
DN-63	63	155					50 ~ 1000
DN-80	80	251					50 ~ 1000
DN-100	100	392					50 ~ 1000
DN-125	125	613					50 ~ 1000
DN-160	160	1004					50 ~ 1000
DN-200	200	1570					50 ~ 1000
DND-32	32	34					Double Acting (Double Rod)
DND-40	40	52	50 ~ 400				
DND-50	50	82	50 ~ 500				
DND-63	63	140	50 ~ 1000				
DND-80	80	226	50 ~ 1000				
DND-100	100	352	50 ~ 1000				
DND-125	125	573	50 ~ 1000				
DND-160	160	942	50 ~ 1000				
DND-200	200	1507	50 ~ 1000				
DNL-32	32	34	Double Acting (Adjustable stroke)		50 ~ 500	50 ~ 300	
DNL-40	40	52				50 ~ 400	
DNL-50	50	82				50 ~ 500	
DNL-63	63	140				50 ~ 1000	
DNL-80	80	226				50 ~ 1000	
DNL-100	100	352				50 ~ 1000	
DNL-125	125	573				50 ~ 1000	
DNL-160	160	942				50 ~ 1000	
DNL-200	200	1507				50 ~ 1000	

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

DMB series STANDARD CYLINDER

DMB



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DMB-32	Ø32	40	Double Acting	Standard Type	50 ~ 700	1.5 ~ 9 (150 ~ 900)	50 ~ 500
DMB-40	Ø40	62					50 ~ 600
DMB-50	Ø50	98					50 ~ 700
DMB-63	Ø63	155					50 ~ 1000
DMB-80	Ø80	251					50 ~ 1000
DMB-100	Ø100	392					50 ~ 1000
DMBD-32	Ø32	34	Double Acting (Double Rod)	FA Type FB Type LB Type CA Type CB Type TC Type	50 ~ 500	50 ~ 500	
DMBD-40	Ø40	52				50 ~ 600	
DMBD-50	Ø50	82				50 ~ 700	
DMBD-63	Ø63	140				50 ~ 1000	
DMBD-80	Ø80	226				50 ~ 1000	
DMBD-100	Ø100	352				50 ~ 1000	

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

DU series STANDARD CYLINDER

DU



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DU-40	40	62	Double Acting		50 ~ 700		50 ~ 300
DU-50	50	98					50 ~ 400
DU-63	63	155					50 ~ 500
DU-80	80	251					
DU-100	100	392					
DU-125	125	613					
DU-160	160	1004					
DU-200	200	1570					
DUD-40	40	52	Double Acting (Double Rod)	Standard Type	50 ~ 500	1.5 ~ 9 (150 ~ 900)	50 ~ 300
DUD-50	50	82					50 ~ 400
DUD-63	63	140					50 ~ 500
DUD-80	80	226					
DUD-100	100	352					
DUD-125	125	573					
DUD-160	160	942					
DUD-200	200	1507					
DUL-40	40	52	Double Acting (Adjustable stroke)		50 ~ 500		50 ~ 300
DUL-50	50	82					50 ~ 400
DUL-63	63	140					50 ~ 500
DUL-80	80	226					
DUL-100	100	352					
DUL-125	125	573					
DUL-160	160	942					
DUL-200	200	1507					

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

DNK series ROD LOCKING CYLINDER

DNK



Model	Bore Size Ø mm	Braking Direction	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Range of Service Temperature °C	Standard Stroke mm
DNK-32	Ø32	Two - way	Standard Type	4 ~ 6.5 (400 ~ 650)	-10 ~ 60	25,50,75,100,125, 150,175,200,250, 300,350,400,450, 500
DNK-40	Ø40		FA Type			
DNK-50	Ø50		FB Type			
DNK-63	Ø63		LB Type			
DNK-80	Ø80		CA Type			
DNK-100	Ø100		CB Type			
			TC Type			

DNE series END LOCK CYLINDER

DNE



Model	Bore Size Ø mm	Braking Direction	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Range of Service Temperature °C	Standard Stroke mm
DNE-32	Ø32	Front cover type	Standard Type	3 ~ 10.3 (300 ~ 1030)	-10 ~ 60	25,50,75,100,125, 150,175,200,250, 300,350,400,450, 500
DNE-40	Ø40		FA Type			
DNE-50	Ø50		FB Type			
DNE-63	Ø63		LB Type			
DNE-80	Ø80		CA Type			
DNE-100	Ø100	End cover type	CB Type			
			TC Type			

DCK2 series CLAMP CYLINDER
DCK2S series CLAMP CYLINDER (strong magnet type)

DCK2/DCK2S



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DCK2 / DCK2S-25	25	24	Double Acting	50 ~ 500	1.5 ~ 10.2 (150 ~ 1020)	50,75,100, 125,150
DCK2 / DCK2S-32	32	40				
DCK2 / DCK2S-40	40	62				
DCK2 / DCK2S-50	50	98				
DCK2 / DCK2S-63	63	155				
DCK2 / DCK2S-80	80	251				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

DQ series POWER CLAMP CYLINDER

DQ



Model	Bore Size Ø mm	Torque N · m	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Angle
DQ40	40	110	Double Acting	50 ~ 500	1.5 ~ 6 (150 ~ 600)	30° ~135°
DQ50	50	150				
DQ63	63	380				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

DCQ series PIN CLAMP CYLINDER
DCQS series PIN CLAMP CYLINDER (strong magnet type)

DCQ/DCQS



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Mounting Type	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DCQ-50 DCQS-50	50	82	Double Acting	Parallel Side	100 ~ 500	1 ~ 7 (100 ~ 700)	10

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

DC series AIR-OIL CONVERTER

DC



Model	Bore Size Ø mm	Power fluid	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
DC-40	40	ISO VG32	Flange Type Foot Type	1 ~ 8.5 (100 ~ 850)	50 ~ 500
DC-63	63				
DC-80	80				
DC-100	100				

DH series BOOSTER

DH



Model	Type	Compressive Pressure Rate	Max. Liquid Pressure Kgf/cm ² (Kpa)	Output Capacity cc	Range of Service Temperature °C	Pressure Range Kgf / cm ² (Kpa)	Power Fluid
DHA-78	Direct - Compressive Type	7.8 time	53 (5300)	50	+5 ~ 60	2 ~ 7 (200 ~ 700)	ISO VG32
DHA-110		11 time	76 (7600)	120			
DHA-250		25 time	172 (17200)	150			
DHB-78	Pro - Compressive Type	7.8 time	53 (5300)	50			
DHB-110		11 time	76 (7600)	120			
DHB-250		25 time	172 (17200)	150			

PCB series BOOSTING CYLINDER

PCB



Model	Type	Power Fluid	Pressure Range Kgf / cm ² (Kpa)	Range of Service Temperature °C	Total Stroke (mm)	High Output Stroke (mm)
PCB -1T	Pro - Compressive Type	ISO VG68	2 ~ 7 (200 ~ 700)	-5 ~ 60	50,100,150,200	5,10,15,20
PCB -3T						
PCB -5T						
PCB -8T						
PCB -10T						

PCU series BOOSTING CYLINDER

PCU



Model	Type	Power Fluid	Pressure Range Kgf / cm ² (Kpa)	Range of Service Temperature °C	Total Stroke (mm)	High Output Stroke (mm)
PCU -1T	Pro - Compressive Type	ISO VG68	2 ~ 7 (200 ~ 700)	-5 ~ 60	50,100,150,200	5,10,15,20
PCU -3T						
PCU -5T						
PCU -10T						
PCU -20T						

PRU series RODLESS CYLINDER

PRU



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
PRU-16	16	10	50 ~ 500	1.5 ~ 7 (150 ~ 700)	50 ~ 1000
PRU-20	20	15			
PRU-25	25	24			
PRU-32	32	40			
PRU-40	40	62			50 ~ 1500

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

PRF series RODLESS CYLINDER (Moderate Type)

PRF



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
PRF-16	16	10	50 ~ 500	1.5 ~ 7 (150 ~ 700)	50 ~ 1000
PRF-20	20	15			
PRF-25	25	24			
PRF-32	32	40			
PRF-40	40	62			50 ~ 1500

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

PRUT series RODLESS CYLINDER (Linear Guides)

PRUT



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
PRUT-16	16	10	50 ~ 500	1.5 ~ 7 (150 ~ 700)	50 ~ 1000
PRUT-20	20	15			
PRUT-25	25	24			
PRUT-32	32	40			
PRUT-40	40	62			50 ~ 1500

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

MRD series MAGNETIC RODLESS CYLINDER **MRD**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRD-10	10	4	0.4	50 ~ 500	1.5 ~ 4.5 (150 ~ 450)	100 ~ 300 (700)
MRD-15	15	8	0.8			100 ~ 500 (700)
MRD-20	20	15	1.1		1.5 ~ 6 (150 ~ 600)	100 ~ 800 (900)
MRD-25	25	24	1.2			100 ~ 700 (800)
MRD-32	32	40	1.5			
MRD-40	40	62	1.9			

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MRB series MAGNETIC RODLESS CYLINDER (Slide Mounting) **MRB**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRB-10	10	4	0.4	50 ~ 500	1.5 ~ 4.5 (150 ~ 450)	50 ~ 300 (300)
MRB-15	15	8	0.8			50 ~ 500 (500)
MRB-20	20	15	1.1		1.5 ~ 6 (150 ~ 600)	50 ~ 500 (800)
MRB-25	25	24	1.2			50 ~ 600 (800)
MRB-32	32	40	1.5			
MRB-40	40	62	1.9			

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MRU series MAGNETIC RODLESS CYLINDER (Bushing Type) **MRU**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRU-10	10	4	2.8	50 ~ 500	1.5 ~ 4.5 (150 ~ 450)	50 ~ 300 (700)
MRU-15	15	8	6.5			100 ~ 500 (700)
MRU-20	20	15	11		1.5 ~ 6 (150 ~ 600)	100 ~ 800 (1000)
MRU-25	25	24	19			100 ~ 800 (1200)
MRU-32	32	40	31			
MRU-40	40	62	48			

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MRH series MAGNETIC RODLESS CYLINDER (Linear Bearing Type) **MRH**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRH-15	15	8	6.5	50 ~ 500	1.5 ~ 6 (150 ~ 600)	100 ~ 500 (700)
MRH-20	20	15	11			100 ~ 800 (1000)
MRH-25	25	24	19		100 ~ 800 (1200)	
MRH-32	32	40	30			

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MRX series MAGNETIC RODLESS CYLINDER (Linear Guides) **MRX**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRX-10	10	4	1.8	50 ~ 500	1.5 ~ 4.5 (150 ~ 450)	50 ~ 300 (700)
MRX-15	15	8	5			50 ~ 500 (700)
MRX-20	20	15	8		1.5 ~ 6 (150 ~ 600)	50 ~ 500 (800)
MRX-25	25	24	11			50 ~ 600 (800)

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MRY series MAGNETIC RODLESS CYLINDER (Double Linear Guides) **MRY**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MRY-10	10	4	4.2	50 ~ 500	1 ~ 5 (100 ~ 500)	50 ~ 300
MRY-15	15	8	7			50 ~ 500
MRY-20	20	15	12		1.5 ~ 6 (150 ~ 600)	50 ~ 500
MRY-25	25	24	19			50 ~ 600

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm²
2. We supply Max. Load details according the stroke based on 300mm · data will be changed according different stroke.

MSR(L) series SLIDE TABLE CYLINDER **MSR(L)**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MSR(L)-10	10	4	0.5	50 ~ 200	1.5 ~ 9 (150 ~ 900)	10,20,30
MSR(L)-16	16	10	1.5			

Note : 1. It uses a precise slide rail guide · low abrasion · fast and accurate driving.
2. It is available to select right and left type.
3. Theoretical Thrust : When air supply to be 5 Kgf/cm²

MSR(L)2 series SLIDE TABLE CYLINDER **MSR(L)2**



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Operation	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MSR(L)2-6	6	1.4	Double Acting	50 ~ 200	2 ~ 7 (200 ~ 700)	10,20,30
MSR(L)2-8	8	2.5				
MSR(L)2-10	10	4			1.5 ~ 7 (150 ~ 700)	
MSR(L)2-12	12	5.6				
MSR(L)2-16	16	10				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

FMR(L) series SLIDE TABLE CYLINDER

FMR(L)



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Max. Load Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
FMR(L)-10	10	4	0.5	100 ~ 500	1.5 ~ 9 (150 ~ 900)	30,50
FMR(L)-16	16	10	1.5			
FMR(L)-20	20	15	2.0			
FMR(L)-25	25	24	2.5			
FMR(L)-32	32	40	3.5			
					1 ~ 9 (100 ~ 900)	30,50,75,100

Note : 1. It uses a precise slide rail guide → low abrasion → fast and accurate driving.
2. It is available to select right and left type and adjustable screws device. It is easy to assembly.
3. It is able to install with shock absorber.
4. Theoretical Thrust : When air supply to be 5 Kgf/cm²

MDX(L) series SLIDE TABLE CYLINDER

MDX(L)



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MDX-6	6	2.8	100 ~ 500	1.5 ~ 7 (150 ~ 700)	10 ~ 50
MDX-8	8	5			
MDX-12	12	11			
MDX-16	16	20			
MDX-20	20	31			
MDX-25	25	49			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

MBX series PRECISION CYLINDER

MBX



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MBX-8	8	2.5	100 ~ 500	1.5 ~ 7 (150 ~ 700)	10 , 20
MBX-10	10	4.0			
MBX-12	12	5.5			
MBX-16	16	10			
MBX-20	20	15			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

MGX series DUAL ROD PRECISION CYLINDER

MGX



Model	Bore Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MGX-8	8	5	100 ~ 500	1.5 ~ 7 (150 ~ 700)	25 ~ 150
MGX-12	12	11			
MGX-16	16	20			
MGX-20	20	31			
MGX-25	25	49			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

MQX series COMPACT SLIDE CYLINDER

MQX



Model	Bore Size Ø mm	Theoretical Thrust kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
MQX-6	6	1.4	100 ~ 500	1.5 ~ 7 (150 ~ 700)	5,10,15,20,25,30,40,50,60
MQX-10	10	4.0			
MQX-16	16	10			
MQX-20	20	15			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

TD series DUAL ROD CYLINDER

TD



Model	Bore Size Ø mm	Rod Size Ø mm	Theoretical Thrust kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TD-6	6	4	2.8	50 ~ 700	1 ~ 8.5 (100 ~ 850)	10 ~ 50
TD-10	10	6	7.8			
TD-16	16	8	20			
TD-20	20	10	31	100 ~ 500		
TD-25	25	12	49			
TD-32	32	16	80			
TD-40	40	16	124			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

TDX series DUAL ROD CYLINDER

TDX



Model	Bore Size Ø mm	Rod Size Ø mm	Theoretical Thrust kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TDX-10	10	6	7.8	100 ~ 500	1 ~ 8.5 (100 ~ 850)	10 ~ 100
TDX-16	16	8	20			
TDX-20	20	10	31			
TDX-25	25	12	49			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

TDXU series DUAL ROD CYLINDER

TDXU



Model	Bore Size Ø mm	Rod Size Ø mm	Theoretical Thrust kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TDXU-16	16	8	20	100 ~ 500	1 ~ 8.5 (100 ~ 850)	10 ~ 150
TDXU-20	20	10	31			
TDXU-25	25	12	49			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

STU(M) series DUAL ROD CYLINDER

STU(M)



Model	Bore Size Ø mm	Rod Size Ø mm	Theoretical Thrust Kgf	Max. Load KGS	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STU-10	10	6	5.0	0.5	100 ~ 500	1.5 ~ 9 (150 ~ 900)	25 ~ 100
STU-16	16	8	15	1.5			
STU-20	20	10	23	2.0			
STU-25	25	12	37	2.5			
STU-32	32	16	60	3.5			
STM-16	16	8	15	3	50 ~ 170	1.5 ~ 9 (150 ~ 900)	25 ~ 250
STM-20	20	10	23	4			
STM-25	25	12	37	5			
STM-32	32	16	60	6			

Note : 1. STU series : Two sides moving (Body mounted).
2. STM series : Body moving (Two sides mounted).
3. Theoretical Thrust : When air supply to be 5 Kgf/cm²

STX series DUAL ROD CYLINDER

STX



Model	Bore Size Ø mm	Rod Size Ø mm	Theoretical Thrust Kgf	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
STX-10	10	10	5.0	50 ~ 500	1 ~ 7 (100 ~ 700)	10,20,30,40,50,75,100
STX-16	16	16	15			
STX-20	20	20	23			
STX-25	25	25	37			

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

TB(U) series TWIN-GUIDE CYLINDER

TB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TB-10	B: Bush Guide (Mild steel rod)	10	3.9	±0.08	50 ~ 500	1.5 ~ 7 (150 ~ 700)	25 ~ 100
TB-16		16	10				
TB-20		20	15				
TB-25		25	24	±0.07			25 ~ 200
TB-32		32	40				
TB-40		40	62				30 ~ 250
TB-50	50	98	±0.06	50 ~ 350	30 ~ 150		
TB-63	63	155					
TU-10	U: Linear Bearing Guide (Bearing steel rod)	10			3.9		±0.1
TU-16		16	10				
TU-20		20	15				
TU-25		25	24	±0.09	25 ~ 200		
TU-32		32	40				
TU-40		40	62		30 ~ 250		
TU-50	50	98	±0.08	100 ~ 400	30 ~ 150		
TU-63	63	155					
TU-63	63	155			±0.06		

Note : 1. TB is suitable for slow moving , heavy load.
2. TU is suitable for fast moving , lower load.
3. Theoretical Thrust : When air supply to be 5 Kg/cm².

TSB(U) series TWIN-GUIDE SLIDE

TSB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TSB-10	B: Bush Guide (Mild steel rod)	10	3.9	±0.08	50 ~ 500	1.5 ~ 7 (150 ~ 700)	25 ~ 100
TSB-16		16	10				
TSB-20		20	15				
TSB-25		25	24	±0.07			25 ~ 200
TSB-32		32	40				
TSB-40		40	62				30 ~ 250
TSB-50	50	98	±0.06	50 ~ 350	30 ~ 150		
TSB-63	63	155					
TSU-10	U: Linear Bearing Guide (Bearing steel rod)	10			3.9		±0.09
TSU-16		16	10				
TSU-20		20	15				
TSU-25		25	24	±0.08	25 ~ 200		
TSU-32		32	40				
TSU-40		40	62		30 ~ 250		
TSU-50	50	98	±0.07	100 ~ 400	30 ~ 150		
TSU-63	63	155					
TSU-63	63	155			±0.05		

Note : 1. Two slides moving (Body mounted) ◦
2. TSB is suitable for slow moving , heavy load.
3. TSU is suitable for fast moving , lower load.
4. Theoretical Thrust : When air supply to be 5 Kg/cm².

TB(U)2 series TWIN-GUIDE CYLINDER

TB(U)2



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm	
TB2-6	B: Bush Guide (Mild steel rod)	6	1.4	±0.2	50 ~ 500	1.5 ~ 7 (150 ~ 700)	5 ~ 15	
TB2-10		10	3.9					
TB2-12		12	5.7					
TB2-16		16	10.1	±0.18			5 ~ 20	
TB2-20		20	15					
TB2-25		25	24				10 ~ 100	
TB2-32		32	40	±0.17			50 ~ 350	25 ~ 200
TB2-40		40	62					
TB2-50		50	98					
TB2-63		63	155	±0.16			100 ~ 400	30 ~ 250
TB2-80	80	251.2						
TB2-100	100	392.5						
TU2-6	U: Linear Bearing Guide (Bearing steel rod)	6	1.4	±0.2	150 ~ 600	5 ~ 15		
TU2-10		10	3.9					
TU2-12		12	5.7					
TU2-16		16	10.1	±0.18		5 ~ 20		
TU2-20		20	15					
TU2-25		25	24			10 ~ 100		
TU2-32		32	40	±0.17		50 ~ 350	25 ~ 200	
TU2-40		40	62					
TU2-50		50	98					
TU2-63		63	155	±0.16		100 ~ 400	30 ~ 250	
TU2-80	80	251.2						
TU2-100	100	392.5						
TU2-63	63	155	±0.15	100 ~ 400	30 ~ 150			
TU2-80	80	251.2						
TU2-100	100	392.5						

Note : 1. TB2 is suitable for slow moving , heavy load.
2. TU2 is suitable for fast moving , lower load.
3. Theoretical Thrust : When air supply to be 5 Kg/cm².

TXB(U) series TWIN - GUIDE CYLINDER

TXB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm		
TXB-16	B: Bush Guide (Mild steel rod)	16	7.5	±0.08	50 ~ 500	1.5 ~ 7 (150 ~ 700)	50 ~ 150		
TXB-20		20	11						
TXB-25		25	18						
TXB-32		32	30	±0.07			50 ~ 250		
TXB-40		40	52						
TXB-50		50	82						
TXB-63	63	140	±0.06	50 ~ 350	50 ~ 150				
TXU-16	U: Linear Bearing Guide (Bearing steel rod)	16			7.5		±0.09	150 ~ 600	50 ~ 150
TXU-20		20			11				
TXU-25		25	18						
TXU-32		32	30	±0.08	50 ~ 250				
TXU-40		40	52						
TXU-50		50	82						
TXU-63	63	140	±0.07	150 ~ 450	50 ~ 150				
TXU-63	63	140							
TXU-63	63	140			±0.06				

Note : 1. Two slides moving (Body mounted) ◦
2. TXB is suitable for slow moving , heavy load.
3. TXU is suitable for fast moving , lower load.
4. Theoretical Thrust : When air supply to be 5 Kg/cm².

TMB(U) series TWIN - GUIDE CYLINDER

TMB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TMB(U)-20	B : Bush Guide (Mild steel rod)	20	15	B : ±0.05° U : ±0.08°	B : 50-500 U : 150-600	1.5 ~ 7 (150 ~ 700)	25 ~ 300 (500)
TMB(U)-25	U : Linear Bearing Guide (Bearing steel rod)	25	24				
TMB(U)-30	U : Linear Bearing Guide (Bearing steel rod)	30	40				
TMB(U)-40	U : Linear Bearing Guide (Bearing steel rod)	40	62				

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm².
2. (B) Bush guide is suitable for slow moving , heavy load.
3. (U) Linear bearing guide is suitable for fast moving , lower load.

GCB(U) series TWIN - GUIDE CYLINDER

GCB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
GCB(U)-20	B : Bush Guide (Mild steel rod)	20	15	B : ±0.03° U : ±0.05°	B : 50-500 U : 150-600	1.5 ~ 7 (150 ~ 700)	25 ~ 300 (500)
GCB(U)-25	U : Linear Bearing Guide (Bearing steel rod)	25	24				
GCB(U)-30	U : Linear Bearing Guide (Bearing steel rod)	30	40				
GCB(U)-40	U : Linear Bearing Guide (Bearing steel rod)	40	62				

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm².
2. (B) Bush guide is suitable for slow moving , heavy load.
3. (U) Linear bearing guide is suitable for fast moving , lower load.

GHB(U) series TWIN - GUIDE CYLINDER

GHB(U)



Model	Guide Type	Bore Size Ø mm	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
GHB(U)-20	B : Bush Guide (Mild steel rod)	20	15	B : ±0.03° U : ±0.06°	B : 50-500 U : 150-600	1.5 ~ 7 (100 ~ 700)	25 ~ 300 50 ~ 500
GHB(U)-25		25	24				
GHB(U)-32	U : Linear Bearing Guide (Bearing steel rod)	32	40				
GHB(U)-40	U : Linear Bearing Guide (Bearing steel rod)	40	62				
GHB(U)-50	U : Linear Bearing Guide (Bearing steel rod)	50	98	B : 50-350 U : 150-450			
GHB(U)-63	U : Linear Bearing Guide (Bearing steel rod)	63	155				

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm².
2. (B) Bush guide is suitable for slow moving , heavy load.
3. (U) Linear bearing guide is suitable for fast moving , lower load.

TCR series TRIPLE-GUIDE CYLINDER

TCR



Model	Bore Size Ø mm	Guide Type	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TCR-40	40	B : Bush Guide (Mild Steel Rod)	62	B : ±0.05° U : ±0.08°	50 ~ 300	1 ~ 8 (100 ~ 800)	30 · 50 75 · 100
TCR-63	63	U : Linear Bearing Guide (Bearing Steel Rod)	155				
TCR-80	80	U : Linear Bearing Guide (Bearing Steel Rod)	251				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

TCF series TRIPLE-GUIDE CYLINDER

TCF



Model	Bore Size Ø mm	Guide Type	Theoretical Thrust Kgf	Non-Rotating Accuracy θ	Speed Range mm / s	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
TCF-40	40	B : Bush Guide (Mild Steel Rod)	62	B : ±0.05° U : ±0.08°	50 ~ 300	1 ~ 8 (100 ~ 800)	30 · 50 75 · 100
TCF-63	63	U : Linear Bearing Guide (Bearing Steel Rod)	155				
TCF-80	80	U : Linear Bearing Guide (Bearing Steel Rod)	251				

Note : Theoretical Thrust : When air supply to be 5 Kgf/cm²

RTM series ROTARY CYLINDER

RTM



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kgf/cm ² (Kpa)	Torque N · m
RTM-10	4	90°, 180° (270°)	Rod with section	1.5 ~ 7 (150 ~ 700)	0.1
RTM-15	5				0.4
RTM-20	6				0.8
RTM-30	8				1.8
RTM-40	10		3.8		
RTM-50	12		5		
RTM-63	15		10		
RTM-80	17		18		
RTM-100	25		35		
					Rod with keyway

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm².
2. 1 N · m = 0.102 kgf · m

RMF series ROTARY CYLINDER

RMF



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kgf/cm ² (Kpa)	Torque N · m
RMF-10	4	90°, 180°	Flange type with index (Precision type)	2 ~ 7 (200 ~ 700)	0.14
RMF-15	5				0.38
RMF-20	6			0.78	
RMF-30	8			1.8	
RMF-40	10			3.8	
RMF-50	12			5	

RTB,RTBM series ROTARY CYLINDER

RTB / RTBM



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kgf/cm ² (Kpa)	Torque N · m
RTB-03	10	180°	Flange type with index	1.5 ~ 7 (150 ~ 700)	0.3
RTB-07	12				0.6
RTB-10	15				1.5
RTB-20	18				2.2
RTB-30	20				3.2
RTB-50	25				5.5
RTB-70	28				7.5
RTB-100	32				9.8
RTB-200	40				19
RTB-300	50				31
RTB-500	63	49			
RTBM-10	15	90°, 180°			1.5
RTBM-20	18				2.2
RTBM-30	20				3.2
RTBM-50	25				5.5
RTBM-70	28				7.5
RTBM-100	32				9.8

Note : 1. Theoretical Thrust : When air supply to be 5 Kgf/cm².
2. 1 N · m = 0.102 kgf · m

RTZB series 3 POSITIONS - ROTARY CYLINDER

RTZB



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kg/cm ² (Kpa)	Torque N · m
RTZB-10	15	180°	Flange type with index (Precision type)	1.5 ~ 7 (150 ~ 700)	1.5
RTZB-20	18				2.2
RTZB-30	20				3.2
RTZB-50	25				5.5

RTP series ROTARY CYLINDER

RTP



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kg/cm ² (Kpa)	Torque N · m
RTP-5	16	90°, 180°	Standard : Rod with keyway RTP-5 : Rod with section Rod type Standard : Single rod Rod-2D : Double rod	1.5 ~ 7 (150 ~ 700)	0.4
RTP-10	20				0.9
RTP-20	25				1.9
RTP-30	30				2.9

Note : 1. Theoretical Thrust : When air supply to be 5 Kg/cm².
2. 1 N · m = 0.102 kgf · m

RTH series ROTARY CYLINDER

RTH



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kg/cm ² (Kpa)	Torque N · m
RTH-40	40	90°, 180°	Standard : Rod with keyway (Outer ditch) F : Female (Inner ditch)	1.5 ~ 7 (150 ~ 700)	10
RTH-63	63				40
RTH-80	80				60

Note : 1. Theoretical Thrust : When air supply to be 5 Kg/cm².
2. 1 N · m = 0.102 kgf · m

RTU series HYDRAULIC CYLINDER

RTU



Model	Rod Size Ø mm	Rotation Angle	Rotary Mounting Method	Pressure Range Kg/cm ² (Kpa)	Torque N · m
RTU-32	24	90°, 180°	Double acting	35 (3500)	12
RTU-40	28				20

Note : 1. Theoretical Thrust : When air supply to be 5 Kg/cm².
2. 1 N · m = 0.102 kgf · m

SCR(L) series SWING CLAMP CYLINDER

SCR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
SCR(L)-12	12	Double Acting	90°	R : Right L : Left	7.5	10,20	4 (40)	1 ~ 9 (100 ~ 900)
SCR(L)-16	16						7.5 (75)	
SCR(L)-20	20						10 (100)	
SCR(L)-25	25				10		18 (180)	
SCR(L)-32	32				15		30 (300)	
SCR(L)-40	40				53 (520)			
SCR(L)-50	50				83 (820)			
SCR(L)-63	63	19	142 (1400)					

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

HER series DOUBLE ROD SWING CLAMP CYLINDER

HER



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HER - 20	20	Double Acting	90°	R : Right L : Left	10	10,20	20 (200)	2 ~ 9 (200 ~ 900)
HER - 25	25						36 (360)	
HER - 32	32				60 (600)			
HER - 40	40				15		106 (1040)	

Note : 1. Theoretical Thrust : When air supply to be 5 Kg/cm².
2. Theoretical force acts in accordance with same object.
The theoretical force would be half than originally while acting in accordance with different objec.

HGR(L) series SWING CLAMP CYLINDER

HGR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HGR(L) - 20	20	Double Acting	90°	R : Right L : Left	5	12(120)	1.5 ~ 8 (150 ~ 800)
HGR(L) - 25	25					18(180)	
HGR(L) - 32	32					30(300)	
HGR(L) - 40	40					53(520)	

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

HSR(L) series PNEUMATIC SWING CLAMP CYLINDER

HSR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HSR(L)-25	25	Double Acting	90°	R : Right L : Left	9	13	18 (180)	10 (1000)
HSR(L)-32	32						11	
HSR(L)-40	40				15		53 (520)	
HSR(L)-50	50				17		83 (820)	
HSR(L)-63	63				13		142 (1400)	

Note : Theoretical Thrust : When air supply to be 5 Kg/cm²

HBR(L) series PNEUMATIC SWING CLAMP CYLINDER (WITH MAGNET) HBR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HBR(L)-20	20	Double Acting	90°	R : Right L : Left	9	13	12 (120)	10 (1000)
HBR(L)-25	25					20 (200)		
HBR(L)-32	32				36 (360)			
HBR(L)-40	40				63 (630)			
HBR(L)-50	50				98 (980)			
HBR(L)-63	63				168 (1680)			
HBR(L)-80	80	266 (2660)						

Note : Theoretical Thrust : When air supply to be 6 Kgf/cm²

HFR(L) series PNEUMATIC SWING CLAMP CYLINDER (WITH MAGNET) HFR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HFR(L)-20	20	Double Acting	90°	R : Right L : Left	9	13	12 (120)	10 (1000)
HFR(L)-25	25					20 (200)		
HFR(L)-32	32				36 (360)			
HFR(L)-40	40				63 (630)			
HFR(L)-50	50				98 (980)			
HFR(L)-63	63				168 (1680)			

Note : Theoretical Thrust : When air supply to be 6 Kgf/cm²

HFK series PNEUMATIC LINK CLAMP CYLINDER HFK



Model	Bore Size Ø mm	Total Stroke mm	Under Pressure Stroke Ø mm	Operation	Theoretical Clamp Force (N)	Pressure Range Kgf / cm ² (Kpa)
HFK-32	32	23	3	Double Acting	470	2 ~ 7 (200 ~ 700)
HFK-40	40	24.5			570	
HFK-50	50	28.5			855	
HFK-63	63	34			1578	

Note : Theoretical Thrust : When air supply to be 6 Kgf/cm²

HUR(L) series HYDRAULIC SWING CLAMP CYLINDER (WITH MAGNET) HUR(L)



Model	Bore Size Ø mm	Operation	Rotation Angle	Rotating Direction	Rotating Stroke mm	Stroke mm	Theoretical Thrust Kgf (N)	Pressure Range Kgf / cm ² (Kpa)
HUR(L)-25	25	Double Acting	90°	R : Right L : Left	11	11	84 (930)	10 (1000)
HUR(L)-32	32					175 (1720)		
HUR(L)-40	40				308 (3020)			
HUR(L)-50	50				480 (4710)			
HUR(L)-63	63				769 (7540)			

Note : Theoretical Thrust : When air supply to be 35 Kgf/cm²

HUK series HYDRAULIC COMPACT CYLINDER HUK



Model	Bore Size Ø mm	Standard Stroke mm	Theoretical Thrust (N) When 3 MPa	Operation	Manifold Type	Pressure Range Kgf / cm ² (Kpa)
HUK-25	25	25	1296	Double Acting	None : Standard F : Manifold Type	5 ~ 50 (500 ~ 5000)
HUK-32	32	25	2123			
HUK-40	40	30	3063			
HUK-50	50	35	4531			
HUK-63	63	40	6471			

HCF series COMPACT HYDRAULIC CYLINDER (Horizontal Mounting) HCF



Model	Bore Size Ø mm	Theoretical Thrust (KN)When 10 MPa	Operation	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
HCF-20	20	5.0	Double Acting	Front Mount	2 ~ 140 (200 ~ 14000)	10 ~ 40
HCF-25	25	6.0				10 ~ 50
HCF-32	32	7.5				5 ~ 60
HCF-40	40	9.5				5 ~ 80

HCS series COMPACT HYDRAULIC CYLINDER (Vertical Mounting) HCS



Model	Bore Size Ø mm	Theoretical Thrust (KN)When 10 MPa	Operation	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
HCS-32	32	7.5	Double Acting	Top Mount	2 ~ 140 (200 ~ 14000)	10,20,30,40,50
HCS-40	40	9.5				
HCS-50	50	14.8				
HCS-63	63	21.5				

HCC series COMPACT CYLINDER (PISTON SENSING) HCC



Model	Bore Size Ø mm	Theoretical Thrust (KN)When 10 MPa	Operation	Mounting Type	Pressure Range Kgf / cm ² (Kpa)	Standard Stroke mm
HCC-32	32	7.5	Double Acting	Top Mount	70 (7000)	10,20,30,40,50
HCC-40	40	9.5				
HCC-50	50	14.8				
HCC-63	63	21.5				
HCC-80	80	37.7				

HN series THREADED-BODY CYLINDER HN



Model	Rod Size Ø mm	Rod Stroke mm	Theoretical Clip Force		Model Type	Pressure Range Kgf / cm ² (Kpa)
			100 Kg/cm ²	500 Kg/cm ²		
HN □-12	12	10	110	570	HNZ : Female-flush mount	10 ~ 500 (100 ~ 5000)
HN □-16	16	12	200	1010	HNS : Oval head-flush mount	
HN □-20	20	15	310	1570	HNW : Female-flush Hexagon	
HN □-25	25	16	490	2460	HNH : Oval head-Hexagon	

HS series HYDRAULIC SUPPORT CYLINDER HS



Model	Rod Size Ø mm	Rod Stroke mm	Adm. support Force 500 Kg/cm ²	Operation	Pressure Range Kgf / cm ² (Kpa)
HSW-16A8	16	8	6.5KN	Single Acting Flush mount-Normal In	50 ~ 5000
HSW-16B8			9.5KN		
HSW-16A15		15	6.5KN		
HSW-16B15			9.5KN		
HSP-16A8	8	8	6.5KN	Single Acting Flush mount-Normal Out	50 ~ 5000
HSP-16B8			9.5KN		

HDS series MINI GRIPPER

HDD



Model	Bore Size Ø mm	Operation	Angle / Bore size	Gripping Force Kgf	Holder type	Pressure Range	
						Kgf/cm ² (Kpa)	
HDD-08	8	Single acting normally open(P)	-4.5° ~ 10°	0.8	Shank type Panel Mount type Floating Panel Mount type (Parallel) Floating Panel Mount type (Right Angle)	2 ~ 7 (200 ~ 700)	
		Single acting normally close(C)	∅2 ~ ∅10 mm 3 ~ 9 mm				
HDD-11	11	Single acting normally open(P)	-5.5° ~ 8°	2.0	Floating Block type (Parallel) Floating Block type (Right Angle) Flange type (Parallel) Flange type (Right Angle)		
		Single acting normally close(C)	∅6 ~ ∅14 mm 6 ~ 14 mm				

HDS series ANGULAR GRIPPER

HDS



Model		Bore Size Ø mm	Angle	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
Double Acting	Single Acting			Open	Close	
HDS-10	HRS-10	10	-10° ~ +30°	0.3 (3.6)	0.2 (2.2)	1.5 ~ 7.0 (150 ~ 700)
HDS-16	HRS-16	16		1.5 (15.2)	1.1 (11.1)	
HDS-20	HRS-20	20		3.2 (31.9)	2.4 (23.6)	
HDS-25	HRS-25	25		6.0 (59.6)	4.8 (47.2)	
HDS-32	HRS-32	32		11.4 (112.4)	8.6 (84.6)	

Note : The holding point is gripper with 20 mm arm, when air supply to be 5 Kgf / cm².

HDM series 180° ANGULAR GRIPPER

HDM



Model	Bore Size Ø mm	Operation	Angle	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
				Open	Close	
HDM-12	12	Double Acting	-1°~+180°	0.75 (7.3)	0.3 (2.9)	1.5 ~ 7.0 (150 ~ 700)
HDM-16	16			1.6 (16.1)	1.2 (11.7)	
HDM-20	20			3.4 (33.8)	2.5 (24.9)	
HDM-25	25			6.4 (63.2)	5.1 (49.9)	
HDM-32	32			12.1 (119)	9.1 (89.6)	

Note : The holding point is gripper with 20 mm arm, when air supply to be 5 Kgf / cm².

HDP series PARALLEL GRIPPER

HDP



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
				Open	Close	
HDP-10	10	Double Acting	4	0.5 (4.9)	0.8 (7.8)	1.5 ~ 7.0 (150 ~ 700)
HDP-16	16		8	1.8 (17.6)	2.4 (23.5)	
HDP-20	20		12	3.5 (34.3)	4.7 (46)	
HDP-25	25		14	6.0 (58.8)	7.5 (73.5)	
HDP-32	32		16	8.5 (83.3)	10.0 (98)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kgf / cm².

HDF series PARALLEL GRIPPER

HDF



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
				Open	Close	
HDF-12	12	Double Acting	12,24,48	4.9 (48)	4.9 (48)	1.5 ~ 7.0 (150 ~ 700)
HDF-16	16		16,32,64	9.2 (90)	9.2 (90)	
HDF-20	20		20,40,80	14 (140)	14 (140)	

Note : The holding point is gripper with 10 mm arm, when air supply to be 5 Kgf / cm².

HDZ / HRZ series PARALLEL GRIPPER

HDZ / HRZ



Model		Bore Size Ø mm	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
Double Acting	Single Acting			Open	Close	
HDZ-10	HRZ-10R	10	4	1.84 (18)	1.1 (10.5)	Double Acting : 2~7.0 (200~700) Single Actin : 3.5~7.0 (350~700)
HDZ-16	HRZ-16R	16	6	4.7 (46)	3.3 (32)	
HDZ-20	HRZ-20R	20	10	6.3 (62)	4.2 (41)	Double Acting : 1 ~ 7.0 (100 ~ 700) Single Actin : 2.5 ~ 7.0 (250 ~ 700)
HDZ-25	HRZ-25R	25	14	10.2 (100)	6.4 (62.5)	
HDZ-32	HRZ-32R	32	22	18.4 (180)	15.9 (155)	
HDZ-40	HRZ-40R	40	30	32.7 (320)	26 (255)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kgf / cm².

HDZL / HRZL series PARALLEL GRIPPER (Long Stroke Type)

HDZL / HRZL



Model		Bore Size Ø mm	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
Double Acting	Single Acting			Open	Close	
HDZL-10	HRZL-10R	10	8	1.84 (18)	1.1 (10.5)	Double Acting : 2.0~7.0 (200~700) Single Acting : 3.5~7.0 (350~700)
HDZL-16	HRZL-16R	16	12	4.7 (46)	3.3 (32)	
HDZL-20	HRZL-20R	20	18	6.3 (62)	4.2 (41)	Double Acting : 1~7.0 (100~700) Single Acting : 2.5~7.0 (250~700)
HDZL-25	HRZL-25R	25	22	10.2 (100)	6.4 (62.5)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kgf / cm².

HDW series PARALLEL GRIPPER (Low Profile)

HDW



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kgf/cm ² (Kpa)
				Open	Close	
HDW-20	20	Double Acting	8	9.6 (94)	8.6 (84)	1.5 ~ 7.0 (150 ~ 700)
HDW-25	25		11	15.1 (148)	13.7 (134)	
HDW-32	32		16	25 (245)	22.5 (221)	
HDW-40	40		20	46 (451)	41 (402)	
HDW-50	50		26	75.3 (738)	67.5 (662)	
HDW-63	63		32	127 (1245)	114 (1117)	
HDW-80	80		40	163.2 (1600)	153 (1500)	
HDW-100	100		60	234.6 (2300)	229.8 (2252)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kgf / cm².

HDG series PARALLEL GRIPPER (Low Profile)

HDG



Model	Bore Size Ø mm	Operation	Operation Stroke mm	Gripping Force (N)		Pressure Range Kgf/cm ² (Kpa)
				External gripping	Internal gripping	
HDG-50	50	Double Acting	4	170	185	3 ~ 8 (300 ~ 800)
HDG-66	66		6	300	325	
HDG-80	80		8	550	590	
HDG-100	100		10	740	795	
HDG-125	125		12	1290	1370	
HDG-160	160		16	1860	1960	
HDG-200	200		20	3175	3330	
HDG-300	300		30	6675	6830	

HDL series GRIPPER (Wide Type)

HDL



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
HDL-16	16	Double Acting	12	2	2	2.0 ~ 7.0 (200 ~ 700)
HDL-20	20		14	3	3	
HDL-25	25		15	7.5	7.5	
HDL-32	32		16	10	10	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

HDT series GRIPPER (Wide Type)

HDT



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
HDT-1020	10	Double Acting	20	1.5 (15)	1.4 (14)	1.5 ~ 7.0 (150 ~ 700)
HDT-1040			40			
HDT-1060			60			
HDT-1630	16		30	4.7 (46)	4.5 (44)	
HDT-1660			60			
HDT-1680			80			
HDT-2040	20		40	7.8 (76)	7.4 (73)	
HDT-2080			80			
HDT-20100			100			
HDT-2550	25		50	13.8 (135)	13 (128)	
HDT-25100			100			
HDT-25120			120			
HDT-3270	32	70	23.2 (228)	30 (224)		
HDT-32120		120				
HDT-32160		160				
HDT-40100	40	100	40 (396)	37 (365)		
HDT-40160		160				
HDT-40200		200				

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

HDQ2 / HDQ3 / HDQ4 series GRIPPER (Two finger / Three finger / Four finger)

HDQ



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
HDQ2-25	25	Double Acting	6	4.7 (46.4)	4.0 (39)	1.5 ~ 7.0 (150 ~ 700)
HDQ2-32	32		8	11 (107)	9.4 (92.5)	
HDQ2-40	40		8	20 (197)	17 (173)	
HDQ2-50	50		12	43 (421)	38 (378)	
HDQ2-63	63		16	69 (677)	62 (608)	
HDQ2-80	80		20	90 (890)	82 (803)	
HDQ2-100	100		24	146 (1438)	137 (1348)	
HDQ3-25	25		6	3.2 (30.9)	2.7 (26)	
HDQ3-32	32		8	7.3 (71.7)	6.3 (61.6)	
HDQ3-40	40		8	13 (131)	11 (115)	
HDQ3-50	50		12	28 (280)	25 (252)	
HDQ3-63	63		16	46 (451)	41 (405)	
HDQ3-80	80		20	60 (593)	54 (535)	
HDQ3-100	100		24	97 (959)	91 (899)	
HDQ4-25	25		6	2.4 (23.2)	2 (19.5)	
HDQ4-32	32		8	5.5 (53.8)	4.7 (46.2)	
HDQ4-40	40	8	10 (98.8)	8.8 (86.7)		
HDQ4-50	50	12	21 (210)	19 (189)		
HDQ4-63	63	16	34 (338)	31 (304)		
HDQ4-80	80	20	45 (445)	41 (401)		
HDQ4-100	100	24	73 (719)	68 (674)		

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

HDN series GRIPPER (Three finger)

HDN



Model	Bore Size Ø mm	Operation	Operation Stroke mm	Gripping Force (N)		Pressure Range Kg/cm ² (Kpa)
				External gripping	Internal gripping	
HDN-50	50	Double Acting	4	450	500	2 ~ 8 (200 ~ 800)
HDN-66	66		6	750	800	
HDN-80	80		8	1200	1300	
HDN-100	100		10	2000	2100	
HDN-125	125		12	3500	3600	
HDN-160	160		16	6500	6600	
HDN-200	200		20	8200	8450	
HDN-300	300		30	15300	15500	

HDR series GRIPPER (Three finger)

HDR



Model	Bore Size Ø mm	Operation	Opening Stroke mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
HDR-25	25	Double Acting	6	4.3 (42)	3.8 (37.5)	1.5 ~ 7.0 (150 ~ 700)
HDR-32	32		8	8.5 (83)	7.7 (75)	
HDR-40	40		8	13.3 (130)	11.7 (115)	
HDR-50	50		12	21.7 (213)	18.9 (185)	
HDR-63	63		16	36.7 (360)	33.7 (330)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

RMZ series ROTARY GRIPPER

RMZ



Model	Bore Size Ø mm	Operation	Angle mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
RMZ-10	10	Double Acting	4	1.84 (18)	1.1 (10.5)	1.5 ~ 7.0 (150 ~ 700)
RMZ-16	16		6	4.7 (46)	3.3 (32)	
RMZ-20	20		10	6.3 (62)	4.2 (41)	
RMZ-25	25		14	10.2 (100)	6.4 (62.5)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

RBZ series ROTARY GRIPPER

RBZ



Model	Bore Size Ø mm	Operation	Angle mm	Holding Force Kgf (N)		Pressure Range Kg/cm ² (Kpa)
				Open	Close	
RBZ-10	10	Double Acting	4	1.84 (18)	1.1 (10.5)	1.5 ~ 7.0 (150 ~ 700)
RBZ-16	16		6	4.7 (46)	3.3 (32)	
RBZ-20	20		10	6.3 (62)	4.2 (41)	

Note : The holding point is gripper with 30 mm arm, when air supply to be 5 Kg / cm².

EV series VACUUM EJECTOR

EV



Model	Nozzle Diameter mm	Vacuum Current L/min (ANR)	Port Size Rc (PT)	Max. Vacuum Degree (- mmHg)	Remark
EV-05	Ø0.5	10	1/8"	680	-S With switch -K Adjustable
EV-10	Ø1.0	40			
EV-15	Ø1.5	90	1/4"		
EV-20	Ø2.0	110	3/8"		
EV-25	Ø2.5	240	1/2"		
EV-30	Ø3.0	340	3/4"		

EVM series VACUUM EJECTOR

EVM



Model	Nozzle Diameter mm	Vacuum Current L/min (ANR)	Port Size Rc (PT)	Max. Vacuum Degree (- mmHg)	Remark
EVM-1005	Ø0.5	12	1/8"	690	-S With switch -K Adjustable
EVM-1007	Ø0.7	22			
EVM-1010	Ø1.0	58	1/4"		
EVM-1012	Ø1.2	75	3/8"		
EVM-1515	Ø1.5	115	1/2"		
EVM-2020	Ø2.0	245	3/4"		

VAB series VACUUM EJECTOR

VAB



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kgf/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VAB-07-04	4	4	0.7	1.5 ~ 7 (150 ~ 700)	700	8	14
VAB-07-06	6	6				14	24
VAB-12-04	4	4	1.2			28	46
VAB-12-06	6	6				38	50
VAB-15-08	8	8	1.5			80	90
VAB-15-10	10	10				86	98

VAS series PRESSURE SWITCH

VAS



Model	Tube dia (V)	Max. Vacuum Degree (- mmHg)	Remarks
VAS-10-04	4	0 ~ -700	Mechanical type (Hand adjust mounting)
VAS-10-06	6		
VAS-15-08	8		
VAS-15-10	10		

VABS series VACUUM EJECTOR (With Switch)

VABS



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kgf/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VABS-07-04	4	4	0.7	1.5 ~ 7 (150 ~ 700)	700	8	14
VABS-07-06	6	6				14	24
VABS-12-04	4	4	1.2			28	46
VABS-12-06	6	6				38	50
VABS-15-08	8	8	1.5			80	90
VABS-15-10	10	10				86	98

VMB series VACUUM EJECTOR

VMB



Model	Tube dia (V)	Thread Rc (PT)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)			
VMB-05-601	6	1/8"	0.5	680	11.5			
VMB-07-601			0.7		23			
VMB-07-801	8		1.0		680	45		
VMB-10-601	6							
VMB-10-801	8		1/4"				680	90
VMB-15-802	8							
VMB-15-102	10							

VMD series VACUUM EJECTOR

VMD



Model	Tube dia (V)	Thread Rc (PT)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)			
VMD-05-601	6	1/8"	0.5	680	11.5			
VMD-07-601			0.7		23			
VMD-07-801	8		1.0		680	45		
VMD-10-601	6							
VMD-10-801	8		1/4"				680	90
VMD-15-802	8							
VMD-15-102	10							

VML series VACUUM EJECTOR

VML



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VML-05-04	4	4	0.5	680	8	14
VML-05-06	6	6			14	24
VML-10-06	6	6	1.0		37	45
VML-10-08	8	8			37	45
VML-15-08	8	8	1.5		90	100
VML-15-10	10	10			90	100
VML-20-10	10	10	2.0	150	180	
VML-20-12	12	12		150	180	

VMK series VACUUM EJECTOR

VMK



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VMK-05-4M5	4	M5X0.8p	0.5	680	8	14
VMK-05-601	6	1/8"	1.0		37	45
VMK-10-601	6					
VMK-10-801	8	1/4"	1.5		90	100
VMK-15-802	8					
VMK-15-103	10	3/8"	2.0		150	180
VMK-20-103	10					
VMK-20-124	12	1/2"	150	180		

VMT series VACUUM EJECTOR

VMT



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VMT-05-04	4	4	0.5	680	8	14
VMT-05-06	6	6			14	24
VMT-10-06	6	6	1.0		37	45
VMT-10-08	8	8			37	45
VMT-15-08	8	8	1.5		90	100
VMT-15-10	10	10			90	100
VMT-20-10	10	10	2.0	150	180	
VMT-20-12	12	12		150	180	

CHELIC products
 Related Calculation / Common Canton
 Air unit
 Valve
 Cylinder
 Gripper
 Vacuum Equipment
 Fitting
 Accessories
 Assembly pick and place robot

VMBU series VACUUM EJECTOR

VMBU



Model	Tube dia (V)	Thread Rc (PT)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)
VMBU-05-601	6	1/8"	0.5	680	11.5
VMBU-07-601			0.7		23
VMBU-07-801	8		0.7		23
VMBU-10-601	6		1.0		45
VMBU-10-801	8	1/4"	1.0	680	45
VMBU-15-802	8		1.5		67.5
VMBU-15-102	10	1.5	67.5	67.5	

VMDU series VACUUM EJECTOR

VMDU



Model	Tube dia (V)	Thread Rc (PT)	Nozzle Diameter mm	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)
VMDU-05-601	6	1/8"	0.5	680	11.5
VMDU-07-601			0.7		23
VMDU-07-801	8		0.7		23
VMDU-10-601	6		1.0		45
VMDU-10-801	8	1/4"	1.0	680	45
VMDU-15-802	8		1.5		67.5
VMDU-15-102	10	1.5	67.5	67.5	

VKB series VACUUM EJECTOR

VKB



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kg/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VKB-05-06	Ø6	Ø6	0.5	2.5 ~ 7 (250 ~ 700)	712	6	15
VKB-07-06			0.7			12	25
VKB-10-06			1			27	60
VKB-12-06			1.2			30	75

VKS series VACUUM EJECTOR

VKS



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kg/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VKS-05-06	Ø6	Ø6	0.5	2.5 ~ 7 (250 ~ 700)	712	6	15
VKS-07-06			0.7			12	25
VKS-10-06			1			27	60
VKS-12-06			1.2			30	75

VKT series VACUUM EJECTOR

VKT



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kg/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VKT-05-06	Ø6	Ø6	0.5	2.5 ~ 7 (250 ~ 700)	712	6	15
VKT-07-06			0.7			11	26
VKT-10-06			1			26	53
VKT-12-06			1.2			28	76

VKST series VACUUM EJECTOR

VKST



Model	Tube dia (V)	Tube dia (P)	Nozzle Diameter mm	Pressure Range Kg/cm ² (Kpa)	Max. Vacuum Degree (- mmHg)	Vacuum Current L/min (ANR)	Air Consumption L/min (ANR)
VKST-05-06	Ø6	Ø6	0.5	2.5 ~ 7 (250 ~ 700)	680	6	15
VKST-07-06			0.7			11	26
VKST-10-06			1			26	53
VKST-12-06			1.2			28	76

VFD series VACUUM FILTER

VFD



Model	Tube dia (V)(P)	Tube dia (EX)	Reference Flow L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Filter Grade μ
VFD-01-04	4	4	10	-1 (-100)	10 μ
VFD-02-04			10		
VFD-02-06	6	6	20		
VFD-03-06			30		
VFD-03-08	8	8	50		
VFD-03-10			60		
VFD-04-10	10	10	75		
VFD-04-12	12	12	100		

VFM series VACUUM FILTER

VFM



Model	Port Size Rc (PT)	Filter Grade μm	Reference Flow L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Remarks
VFM-200	- 01 1/8"	40 μm	100	0.0 ~ -101.3	1. Without bowl gaud 2. Mounting bracket(option)
	- 02 1/4"				
VFM-300	- 02 1/4"		200		
	- 03 3/8"				
VFM-400	- 03 3/8"		300		
	- 04 1/2"				
VFM-450	- 04 1/2"	400			
	- 06 3/4"				
VFM-500	- 04 3/4"	400			
	- 06 1"				

VFU series VACUUM FILTER

VFU



Model	Tube dia (V)(P)	Tube dia (EX)	Reference Flow L/min (ANR)	Pressure Range Kg/cm ² (Kpa)	Filter Grade μ
VFU-01-04	Ø4	Ø4	10	-1 (-100 ~ 0)	30μ
VFU-01-06	Ø6	Ø6	20		
VFU-02-06			30		
VFU-02-08	Ø8	Ø8	50		
VFU-03-08			75		
VFU-03-10	Ø10	Ø10	75		

ERV series VACUUM REGULATOR

ERV



Model	Port Size Rc (PT)	Pressure Range Kpa (mmHg)	Air Consumption L / min	Service Temperature	Gauge
ERV-200	1/8" · 1/4"	-98.6 ~ -1 Kpa (-740 ~ -7.5)	0.6 L/min (ANR) or less	5 ~ 60°C	VG - 10A

PAF series VACUUM PAD

PAF



Model	Connection Type	Pad Diameter	Material
PAF	Long wise connection	Ø2 ~ Ø100	NBR Rubber Silicon Rubber PU Rubber
		Ø2 ~ Ø60	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PAK series VACUUM PAD

PAK



Model	Connection Type	Pad Diameter	Material
PAK	Long wise connection	Ø10 ~ Ø80	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø60	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PAT series VACUUM PAD

PAT



Model	Connection Type	Pad Diameter	Material
PAT	Side connection	Ø2 ~ Ø200	NBR Rubber Silicon Rubber PU Rubber
		Ø2 ~ Ø60	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PAFS series VACUUM PAD

PAFS



Model	Connection Type	Pad Diameter	Material
PAFS	Long wise connection (With spring)	Ø2 ~ Ø50	NBR Rubber Silicon Rubber PU Rubber SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PATS series VACUUM PAD

PATS



Model	Connection Type	Pad Diameter	Material
PATS	Side connection (With spring)	Ø2 ~ Ø200	NBR Rubber Silicon Rubber PU Rubber
		Ø2 ~ Ø60	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PBF series VACUUM PAD

PBF



Model	Connection Type	Pad Diameter	Material
PBF	Long wise connection	Ø10 ~ Ø80	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PBK series VACUUM PAD

PBK



Model	Connection Type	Pad Diameter	Material
PBK	Long wise connection	Ø10 ~ Ø80	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PBT series VACUUM PAD

PBT



Model	Connection Type	Pad Diameter	Material
PBT	Side connection	Ø10 ~ Ø80	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PBFS series VACUUM PAD

PBFS



Model	Connection Type	Pad Diameter	Material
PBFS	Long wise connection (With spring)	Ø10 ~ Ø50	NBR Rubber Silicon Rubber PU Rubber SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PBTS series VACUUM PAD

PBTS



Model	Connection Type	Pad Diameter	Material
PBTS	Side connection (With spring)	Ø10 ~ Ø80	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PCF series VACUUM PAD

PCF



Model	Connection Type	Pad Diameter	Material
PCF	Long wise connection	Ø5 ~ Ø60	NBR Rubber Silicon Rubber PU Rubber
		Ø5 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PCK series VACUUM PAD

PCK



Model	Connection Type	Pad Diameter	Material
PCK	Long wise connection	Ø10 ~ Ø60	NBR Rubber Silicon Rubber PU Rubber
		Ø10 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PCT series VACUUM PAD

PCT



Model	Connection Type	Pad Diameter	Material
PCT	Side connection	Ø5 ~ Ø60	NBR Rubber Silicon Rubber PU Rubber
		Ø5 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

PCFS series VACUUM PAD

PCFS



Model	Connection Type	Pad Diameter	Material
PCFS	Long wise connection (With spring)	Ø5 ~ Ø40	NBR Rubber Silicon Rubber PU Rubber SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

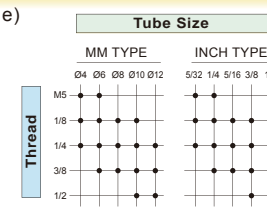
PCTS series VACUUM PAD

PCTS

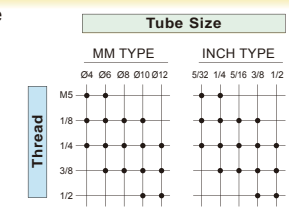


Model	Connection Type	Pad Diameter	Material
PCTS	Side connection (With spring)	Ø5 ~ Ø60	NBR Rubber Silicon Rubber PU Rubber
		Ø5 ~ Ø50	SE Anti-Static Rubber E Low Resistance & Anti-Static Rubber

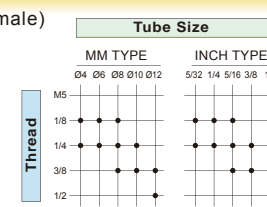
SQC Straight (Male)



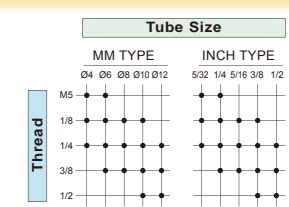
SQD Branch Tee



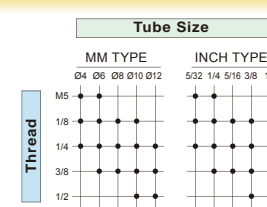
SQG Straight (Female)



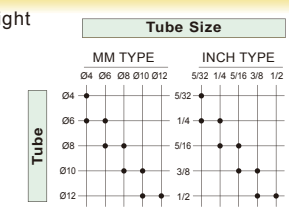
SQU Branch Y



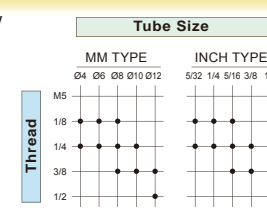
SQL Elbow 90°



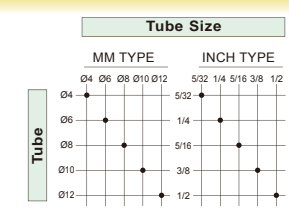
SQH Union Straight



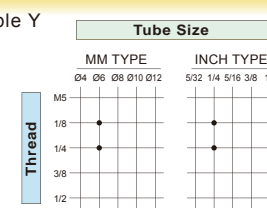
SQSL Long Elbow



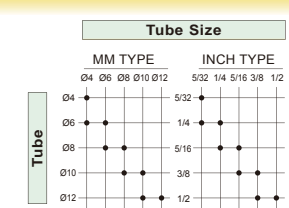
SQV Union L



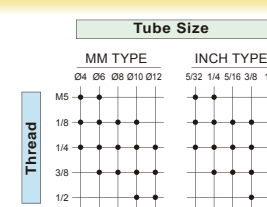
SQM Branch Double Y



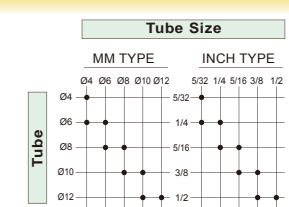
SQE Union Tee



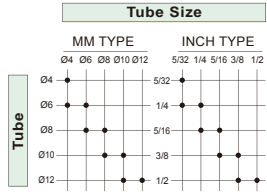
SQT Branch Tee



SQY Union Y

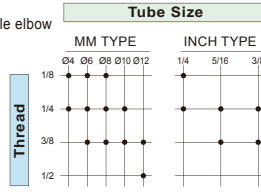


SQX Cross

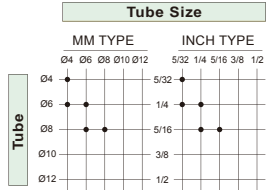


SQZB

Double branch universal male elbow

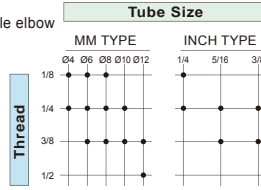


SQF Union

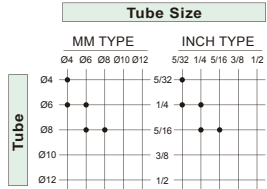


SQZC

Triple branch universal male elbow

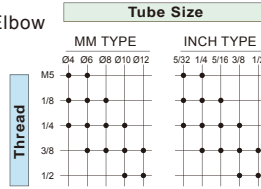


SQFD Union

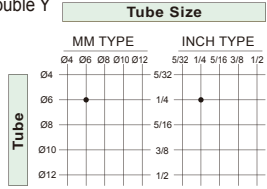


SQP

Female Universal Elbow

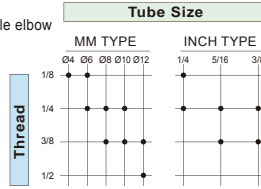


SQW Branch Union Double Y

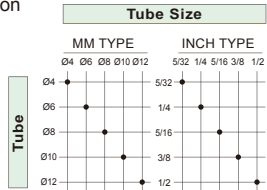


SQPB

Double branch universal male elbow

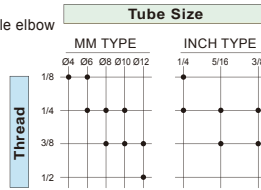


SQMH Bulkhead Union

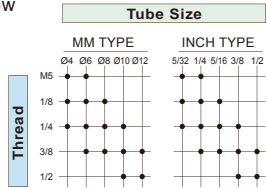


SQPC

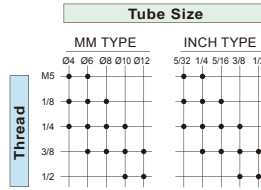
Triple branch universal male elbow



SQZ Universal Elbow

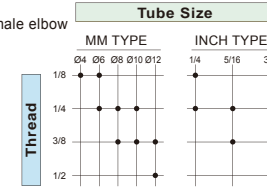


SQKZ Branch A

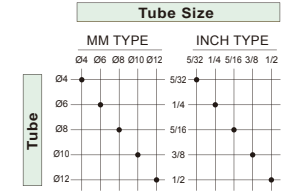


SQBZ

Double branch universal male elbow

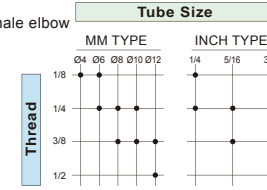


SQKU Union A

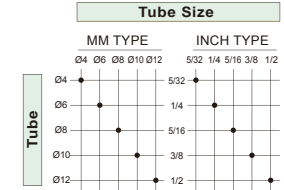


SQCZ

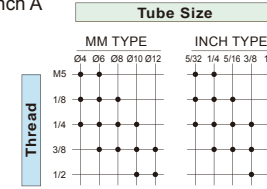
Triple branch universal male elbow



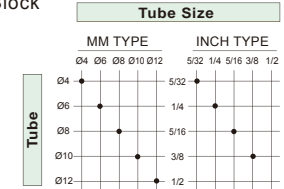
SQB Branch



SQKP Female Branch A

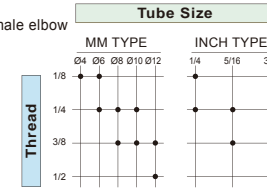


SQCH Straight Block

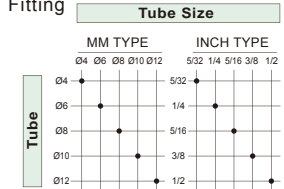


SQBP

Double branch universal male elbow

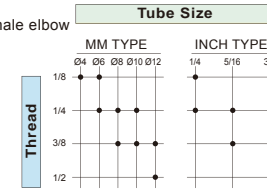


SQL L Partition Fitting

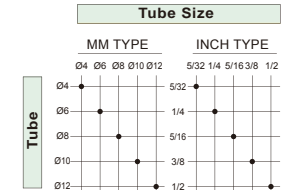


SQCP

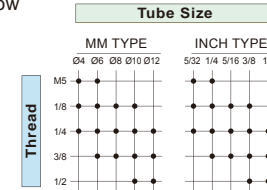
Triple branch universal male elbow



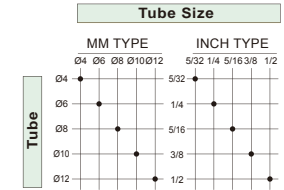
SPG Plug



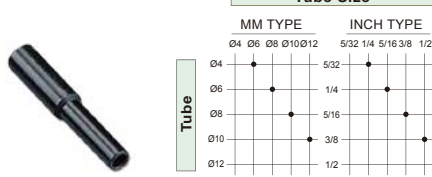
SQKX Branch Elbow



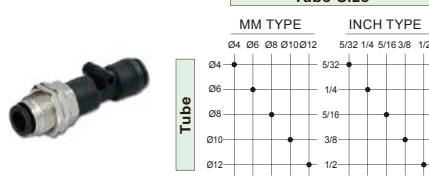
SPP Nipple



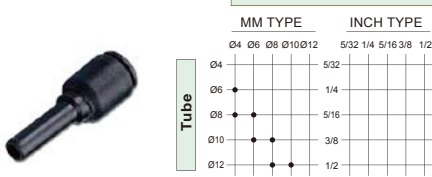
SPF Different Diam Nipple



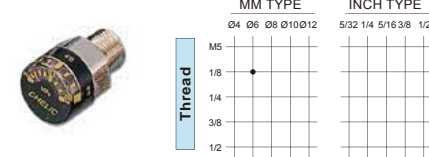
SQRM Bulkhead Union



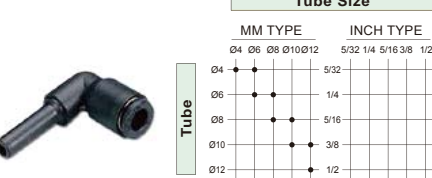
SQHJ Nipple Fitting



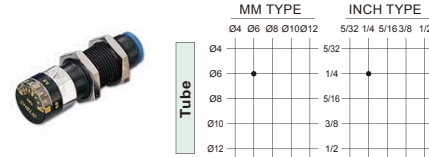
SQCG Pressure Gauge Fitting



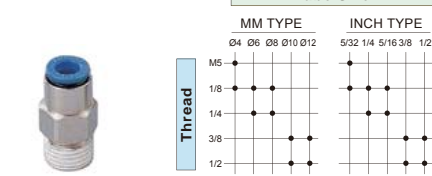
SQLJ Nipple Elbow Fitting



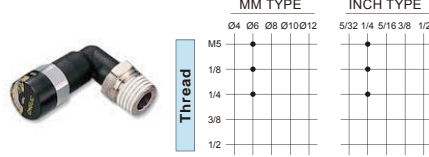
SQMG Bulkhead Pressure Gauge Fitting



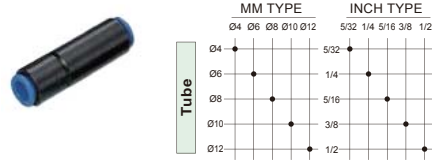
SQRC Straight Check Fitting



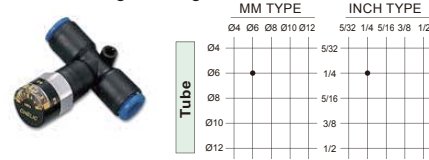
SQLG Bulkhead Pressure Gauge Fitting



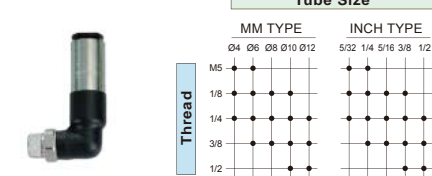
SQRH Union Straight Check Fitting



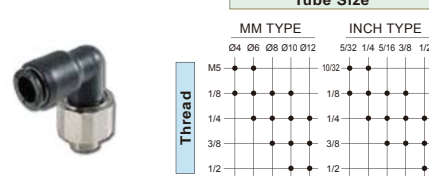
SQEG Pressure Gauge Fitting



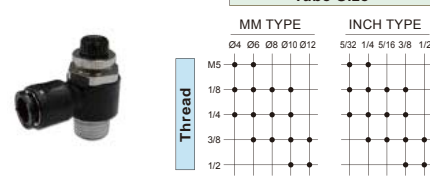
SQRL Elbow



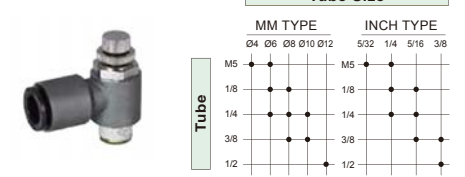
RQL Elbow



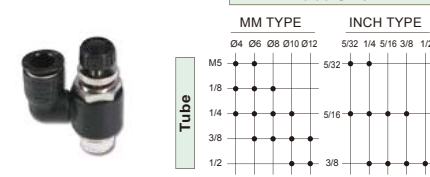
QSC Speed Controller



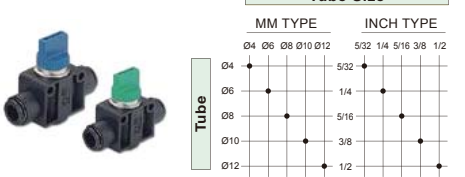
QMC Speed Control



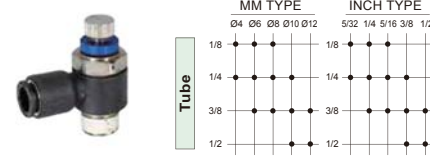
QSU Rotary Fitting



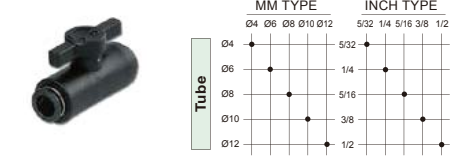
QHV Hand Valve



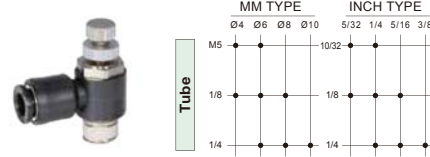
QSB Speed control-Large flow type



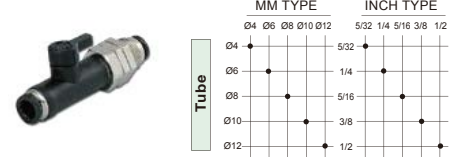
QVA Union Straight



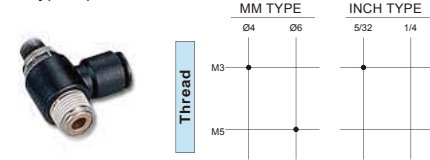
QSS Speed control-Micro low-Flow type



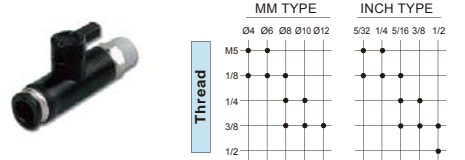
QVAH Bulkhead Union Straight



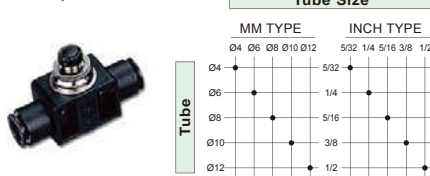
QSM Mini Type Speed Controller



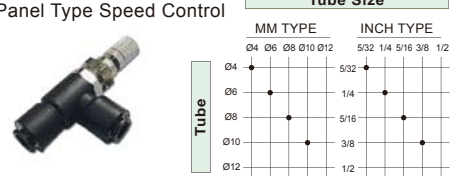
QVAB Straight



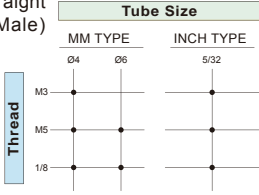
QSN Speed Control



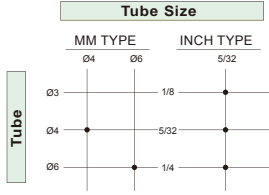
QST Panel Type Speed Control



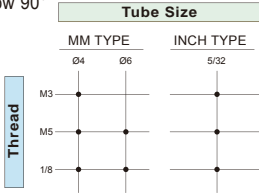
MSQC Mini Type Straight (Male)



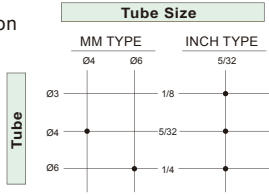
MSQH Union



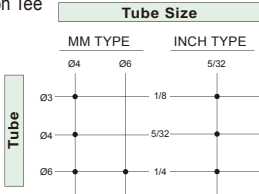
MSQL Mini Type Elbow 90°



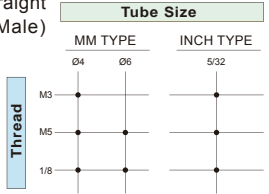
MSQR Threaded Type Union



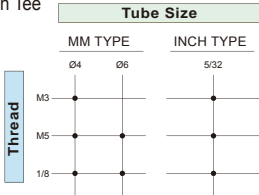
MSQE Mini Type Union Tee



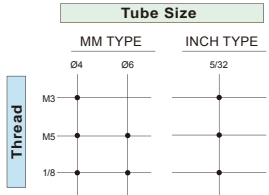
MSQB Rounded Straight (Male)



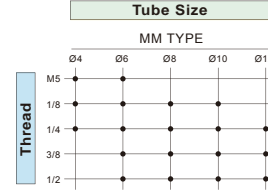
MSQT Mini Type Union Tee



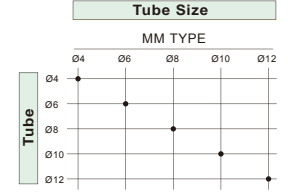
MSQJ 45° Fitting



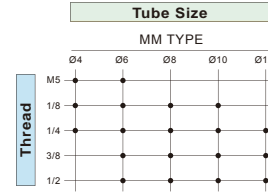
MPC Straight



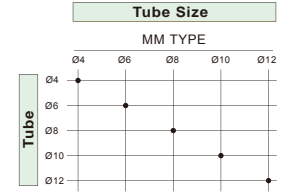
MPV Elbow



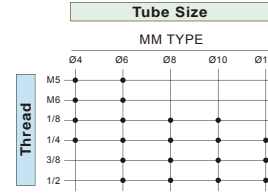
MPCF Straight



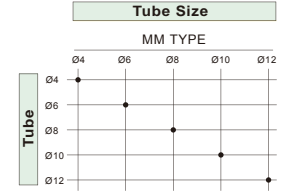
MPE Branch Tee



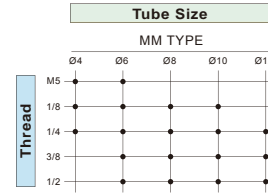
MPL Elbow



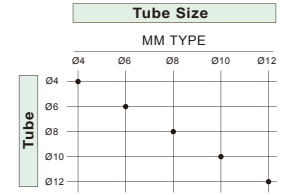
MPZ Cross



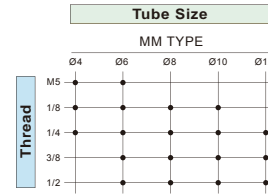
MPB Branch Tee



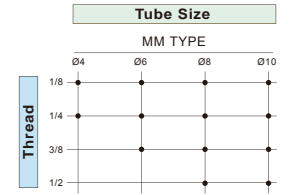
MPM Union



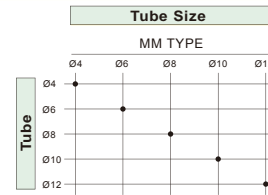
MPD Branch Tee



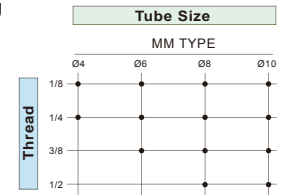
MPH Hex



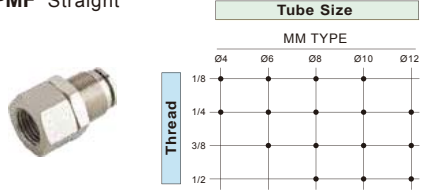
MPU Straight



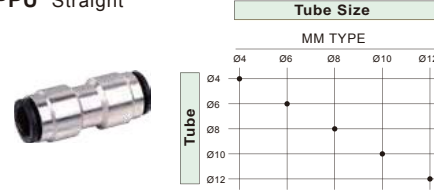
MSC Tube Fitting



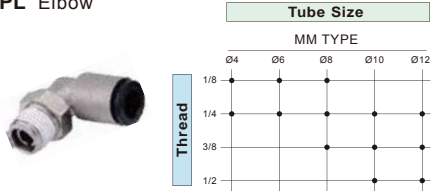
MPMF Straight



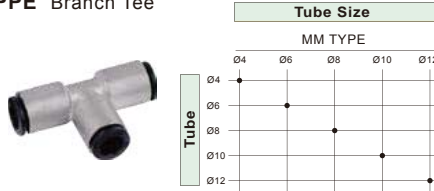
PPU Straight



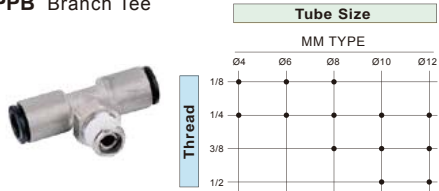
PPL Elbow



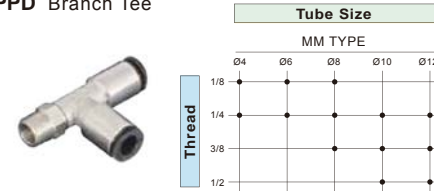
PPE Branch Tee



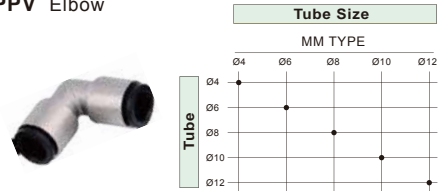
PPB Branch Tee



PPD Branch Tee



PPV Elbow



CJ series CYLINDER FLOAT JOINT

CJ



Model	For Cylinder Bore Size mm	Max. Thrust Kgf	Max. Tensile Strength Kgf	Allowable Eccentricity mm	Shaking Angle
CJ-M4X0.7	10	10	400	0.65	± 5°
CJ-M5X0.8	12,16	15	550	1.1	
CJ-M6X1	16,20	18	600	1	
CJ-M8X1	20,25	30	2100	0.75	
CJ-M8X1.25					
CJ-M10X1.25	25,32	75	3200	1	
CJ-M10X1.5					
CJ-M12X1.25					
CJ-M12X1.5	32,40	120	5000	1.15	
CJ-M14X1.5					
CJ-M16X1.5	40,50	200	6400	1.65	
CJ-M18X1.5					
CJ-M20X1.5	63,80	490	12500	2.15	
CJ-M22X1.5					
CJ-M24X1.5	80,100	750	770	2.65	
CJ-M26X1.5					

Note : Mounting slides are optional.

MAV series MANUALLY OPERATED VALVE

MAV



Model	Port Size Rc (PT)	Thread Type Rc (PT)	Valve Type	Suitable (For F.R.L)
MAV-01	1/8"	Standard : Two Side Female -B : Input (Female) Output (Male)	To exhaust down stream , when pressure in the off position.	For A , P series F.R.L.
MAV-02	1/4"			For B , P series F.R.L.
MBV-02	1/4"			For C. series F.R.L.
MBV-03	3/8"			
MCV-04	1/2"			
MCV-06	3/4"			

SLP series PLASTIC SILENCER

SLP



Model	Port Size Rc (PT)	Material	Noise Reduction Effect dB	Pressure Range Kg/cm ² (Kpa)
SLP-01	1/8	Body : Plastic Filter element : Polyethylene Resin	18	0 ~ 9 (0 ~ 900)
SLP-02	1/4			
SLP-02L			27	
SLP-03	3/8		34	
SLP-04	1/2		34	
SLP-06	3/4		34	
SLP-10	1		34	

SL series BRASS SILENCER

SL



Model	Port Size Rc (PT)	Material	Noise Reduction Effect dB	Pressure Range Kg/cm ² (Kpa)
SL-M5	M5	Brass	-	0 ~ 9 (0 ~ 900)
SL-01	1/8		1	
SL-02	1/4		6	
SL-03	3/8		13	
SL-04	1/2		8	
SL-06	3/4		15	

SAC series SHOCK ABSORBER (WITHOUT CAP) **SAC**



Model	Stroke Ø mm	Max. Energy Absorption N · m	Max. Impact Force Kg	Allowable Impact Speed (V) m/s	Bore Size mm
SAC - 0806N	6	2	2	1.0	Ø10 ~ Ø16
SAC - 1008N	8	4	4	1.5	
SAC - 1210N	10	5	10		1.0
SAC - 1408N	8	15	50	1.5	

SAC series SHOCK ABSORBER **SAC**



Model	Stroke Ø mm	Max. Energy Absorption N · m	Max. Impact Force Kg	Allowable Impact Speed (V) m/s	Bore Size mm
SAC - 0806	6	2	2	1.0	Ø10 ~ Ø16
SAC - 1008	8	4	4	1.5	
SAC - 1210	10	5	10		1.0
SAC - 1408	8	15	50	1.5	
SAC - 1416	16	20	70	2.0	Ø16 ~ Ø32
SAC - 2020	20	40	200		
SAC - 2050	50	60	400	2.5	Ø20 ~ Ø40
SAC - 2525	25	80	800		2.5
SAC - 2540	40	120	1200	2.5	
SAC - 3660	60	250	1500		2.5

SAT series SHOCK ABSORBER **SAT**



Model	Stroke Ø mm	Max. Energy Absorption N · m	Max. Impact Force Kg	Allowable Impact Speed (V) m/s	Bore Size mm
SAT - 0806 (N)	6	0.3	6	3.0	Ø10 ~ Ø16
SAT - 1007 (N)	7	0.6	12	3.5	
SAT - 1210 (N)	10	1.2	22		3.0
SAT - 1412 (N)	12	2.0	40	3.0	
SAT - 2015 (N)	15	6.0	120		4.5
SAT - 2525 (N)	25	8.2	180	4.5	
SAT - 2725 (N)	25	15.0	270		4.5

SAD series SHOCK ABSORBER **SAD**



Model	Stroke Ø mm	Max. Energy Absorption N · m	Max. Impact Force Kg	Allowable Impact Speed (V) m/s	Bore Size mm
SAD - 1410	10	2.04	80	3.0	Ø16 ~ Ø32
SAD - 2016	16	2.55	200	3.5	Ø20 ~ Ø40
SAD - 2525	25	8.7	400		3.0
SAD - 2540	40	10.2	700	3.0	
SAD - 3650	50	30.6	1400		4.5
SAD - 4250	50	51.0	4000	4.5	

SHR series HYDRAULIC REGULATOR **SHR**



Item Model	Max. Stroke	Operating Temp.	Max. Load	Adjustable Speed Range	Allowable Power
SHR15	15 mm	0 ~ 60 °C	15 ~ 350 kgf	0.5 ~ 30mm/Sec (When load 100kgs)	0.23 Kgf.m
SHR30	30 mm				
SHR60	60 mm				
SHR80	80 mm				
SHR100	100 mm				

TK series AIR RESERVOIR **TK**



Model	Port Size Rc (PT)	Bore Size Ø mm	Bore Stroke mm	Volume L	Pressure Range Kgf/cm ² (Kpa)	
TK - 03L	1/4"	114	250	2.5	0 ~ 7 (0 ~ 700)	
TK - 05L		165	270	5		
TK - 10L		200	244	375		10
TK - 15L				490		15
TK - 20L	3/8"	244	490	20		
TK - 25L			575	25		
TK - 30L			660	30		
TK - 35L			760	35		
TK - 40L	1/2"	300	590	40		
TK - 45L			660	45		
TK - 50L			760	50		
TK - 55L			840	55		
TK - 60L			870	60		

CS series SENSOR SWITCH **CS**



Model	Voltage V	Current mA	Contact	Range of Service Temp. °C
CS-95	DC.AC. 10 ~ 240	200	Normally Open	-10 ~ 70
CS-95	DC.AC. 10 ~ 150	200	Normally Close	
CS-95N (P)	DC. 5 ~ 30	200	Normally Open	
CS-100 (S)	DC.AC. 5 ~ 240	100		
CS-100N (P)	DC. 5 ~ 30	200		
CS-120	DC.AC. 5 ~ 240	100		
CS-120N (P)	DC. 5 ~ 30	200		
CS-130	DC.AC. 5 ~ 240	100		
CS-130N (P)	DC. 5 ~ 28	50		
CS-30E (F,S)	DC.AC. 5 ~ 240	100		
CS-30EN (EP)	DC. 5 ~ 30	200		
CS-5G	DC. 10 ~ 28	4 ~ 20		
CS-5GN (P)	DC. 4.5 ~ 28	50		
CS-8G (B)	DC. 10 ~ 28	4 ~ 20		
CS-8GN (P)	DC. 4.5 ~ 28	50		
CS-9D (B)	DC.AC. 5 ~ 120	100		
CS-9H	DC.AC. 5 ~ 240	100		
CS-9DN (P)	DC. 5 ~ 30	200		
CS-6T (H)	DC.AC. 5 ~ 240	100		
CS-7B	DC. 10 ~ 28	4 ~ 20		
CS-7BN (P)	DC. 5 ~ 28	50		
CS-15T (B)	DC.AC. 5 ~ 120	100		
CS-15TN (P)	DC. 5 ~ 30	200		
CS - [32] B	DC.AC. 5 ~ 240	200		
CS - [50] B	DC.AC. 5 ~ 240	200		
CS - [80] B	DC.AC. 5 ~ 240	200		
CS-180	DC. 10 ~ 28	5 ~ 50		-10 ~ 60

Note : Custom-made is normally close for N.C. normally close type.

PU series PU TUBING

PU



Model	OD x ID (mm)	Standard Length (m)	Min. Bending Radius (mm)	Range of service temp. °C	Pressure Range Kgf/cm ² (Kpa)
PU0320	3 x 2	200	8	0 ~ 50	0 ~ 10 (0 ~ 1000)
PU0425	4 x 2.5		10		
PU0640	6 x 4		16		
PU0850	8 x 5	100	22		
PU1065	10 x 6.5		28		
PU1280	12 x 8		37		

※ Standard Color : Black · Blue · Transparent · (Also available in other color).

PN series NYLON TUBING

PN



Model	OD x ID (mm)	Standard Length (m)	Min. Bending Radius (mm)	Range of service temp. °C	Pressure Range Kgf/cm ²
PN0425	4 x 2.5	200	17	0 ~ 50	< 20
PN0640	6 x 4	100	37		
PN0860	8 x 5		48		
PN1075	10 x 7.5	100	66		
PN1290	12 x 9		76		

※ Standard Color : Transparent.

PS series PRESSURE SWITCH

PS



Model	Voltage	Pressure Range	Output	Response Time	Port Size
PS N - 05	12 to 24 VDC (± 10%)	-0.1 ~ 1.0 Mpa	NPN PNP	5 ms or less	Ø6, M5, 1/8" (G,PT,NPT)
PS V - 05		-100 ~ 100 Kpa			
PS N - 10		-0.1 ~ 1.0 Mpa			
PS L - 10		0 ~ 100 Kpa			
PS V - 10		-101 ~ 0 Kpa			M5 , 1/8" (G,PT,NPT)
PS N - 30		-0.1 ~ 1.0 Mpa			
PS C - 30		-100 ~ 100 Kpa			
PS V - 30		0 ~ -101 Kpa			
PS N - 40		-0.1 ~ 1.0 Mpa			1/8" (G,PT,NPT)
PS C - 40		-100 ~ 100 Kpa			
PS V - 40		0 ~ -101 Kpa			
PS N - 41		-0.1 ~ 1.0 Mpa			
PS N - 42		-100 ~ 100 Kpa			
PS C - 42		0 ~ -101 Kpa			
PS V - 42		-0.1 ~ 1.0 Mpa			M5 , 1/8" (G,PT,NPT)
PS N - 43		-100 ~ 100 Kpa			
PS C - 43	-0.1 ~ 1.0 Mpa				
PS N - 46	-0.1 ~ 1.0 Mpa	M5 , 1/8" (G,PT,NPT)			
PS C - 46	-101 ~ 101 Kpa				

APL2 series PICK AND PLACE ROBOT

APL2



Item	Model	APL2 - 10	APL2 - 15	APL2 - 20
Operation		Double Acting		
Fluid		Air		
Pressure Range	Kgf/cm ² (Kpa)	1.5 ~ 6 (150 ~ 600)		
Max. service pressure	Kgf/cm ² (Kpa)	7 (700)		
X Axis Horizontal moving	Model (mm)	MRX 10	MRX 15	MRX 20
	Cylinder thrust (kgf)	4.7	10	18
Y Axis Vertical moving	Model (mm)	MDX 12	MDX 16	MDX 20
	Cylinder thrust (kgf)	13.2	24	37.2
Z Axis Rotary cylinder	Model (mm)	RTB 07	RTBM 10	RTBM 20
	Torque (N·m)	0.6	1.5	2.2
H Axis Gripper	Model (mm)	HDZ 10	HDZ 16	HDZ 20
		HDP 10	HDP 16	HDP 20
		HDS 10	HDS 16	HDS 20

APR2 series PICK AND PLACE ROBOT

APR2



Item	Model	APR2 - 50	APR2 - 70	APR2 - 100
Operation		Double Acting		
Fluid		Air		
Pressure Range	Kgf/cm ² (Kpa)	1.5 ~ 6 (150 ~ 600)		
Max. service pressure	Kgf/cm ² (Kpa)	7 (700)		
R Axis Rotary cylinder	Model (mm)	RTBM 50	RTBM 70	RTBM 100
	Torque (N·m)	5.5	7.5	9.8
X Axis Horizontal moving	Model (mm)	MDX 12	MDX 16	MDX 20
	Cylinder thrust (kgf)	13.2	24	37.2
Y Axis Vertical moving	Model (mm)	MDX 12	MDX 16	MDX 20
	Cylinder thrust (kgf)	13.2	24	37.2
Z Axis Rotary cylinder	Model (mm)	RTB 07	RTBM 10	RTBM 20
	Torque (N·m)	0.6	1.5	2.2
H Axis Gripper	Model (mm)	HDZ 10	HDZ 16	HDZ 20
		HDP 10	HDP 16	HDP 20
		HDS 10	HDS 16	HDS 20

CHELIC products
Related Calculation / Common Canton
Air unit
Valve
Cylinder
Gripper
Vacuum Equipment
Fitting
Accessories
Assembly pick and place robot

ASSEMBLY PICK AND PLACE ROBOT

APS2 series PICK AND PLACE ROBOT

APS2



Item	Model	APS2 - 10	APS2 - 15	APS2 - 20
Operation		Double Acting		
Fluid		Air		
Pressure Range	Kgf/cm ² (Kpa)	1.5 ~ 6 (150 ~ 600)		
Max. service pressure	Kgf/cm ² (Kpa)	7 (700)		
R Axis Rotary cylinder	Model (mm)	MRY 10	MRY 15	MRY 20
	Torque (N·m)	4.7	10	18
X Axis Horizontal moving	Model (mm)	MDX 12	MDX 16	MDX 20
	Cylinder thrust (kgf)	13.2	24	37.2
Y Axis Vertical moving	Model (mm)	MDX 12	MDX 16	MDX 20
	Cylinder thrust (kgf)	13.2	24	37.2
Z Axis Rotary cylinder	Model (mm)	RTB 07	RTBM 10	RTBM 20
	Torque (N·m)	0.6	1.5	2.2
H Axis Gripper	Model (mm)	HDZ 10	HDZ 16	HDZ 20
		HDP 10	HDP 16	HDP 20
		HDS 10	HDS 16	HDS 20

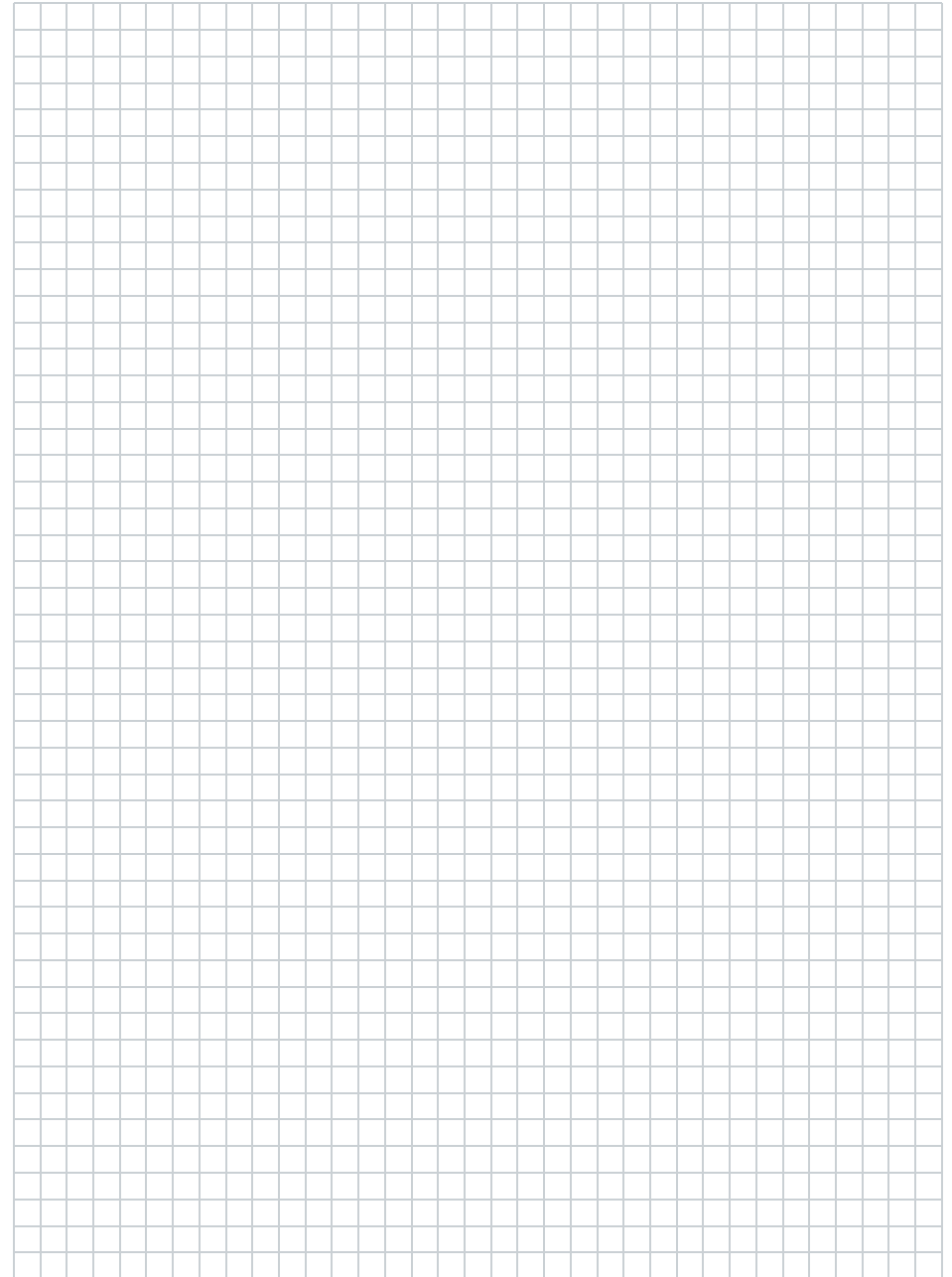
RML series 180° ROTARY GRIPPER

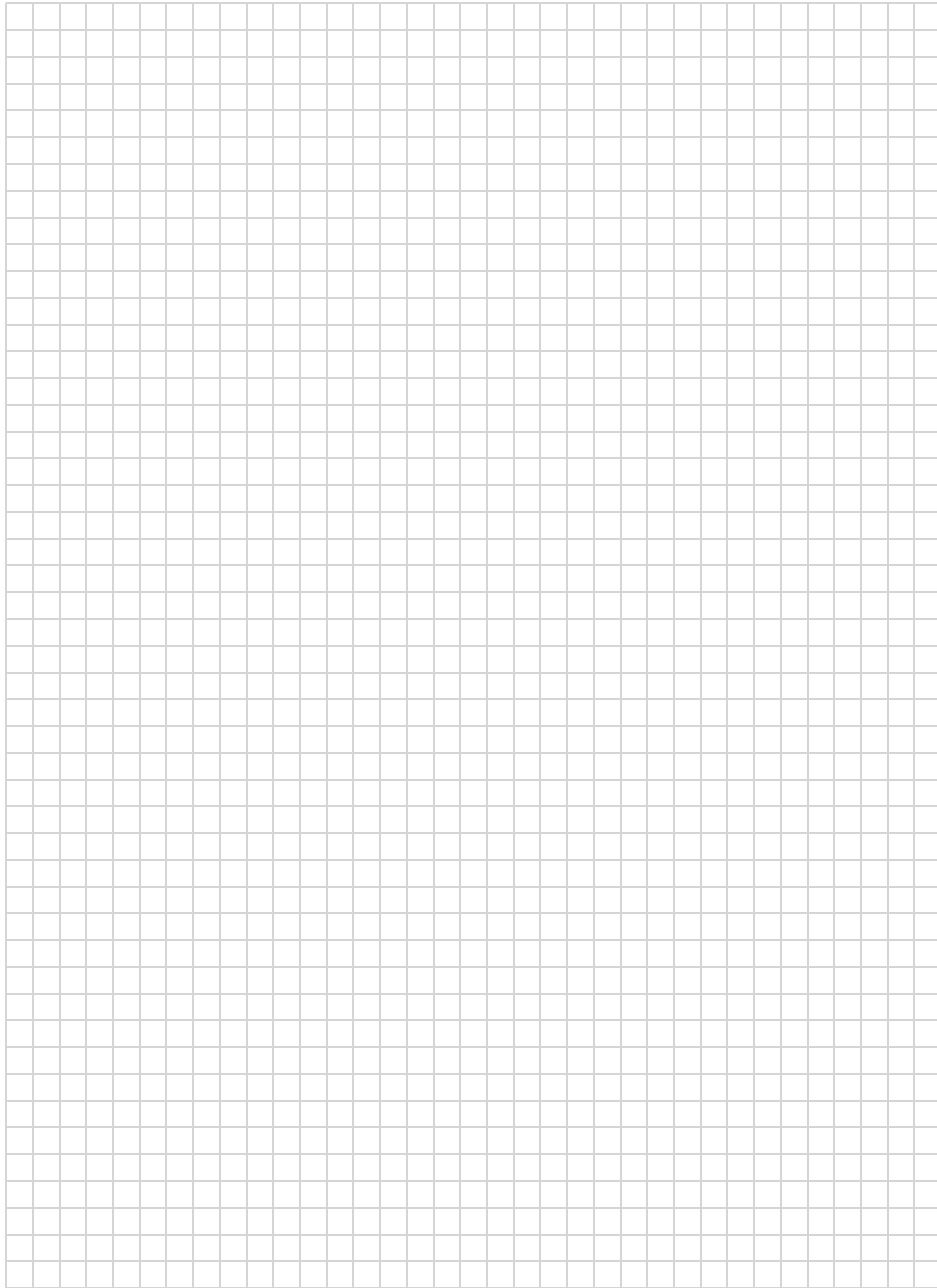
RML



Item	Model	RML - 20			RML - 50		RML - 100		
Gripper		HDQ3 25	HDQ3 32	HDQ3 40	HDQ3 50	HDQ3 63	HDQ3 80	HDQ3 100	
Operation	Rotary cylinder	Double Acting							
	Gripper	Double Acting							
Force	OPEN (N)	30	70	131	282	446	578	946	
	CLOSE (N)	35	82	149	314	496	641	1009	
Fluid		Air							
Pressure Range	kgf/cm ² (kpa)	1.5 ~ 7 (150 ~ 700)							
Max. service pressure	kgf/cm ² (kpa)	6.5 (650)							
Operating ambient temperature range	°C	0 ~ 60							
Lubrication		Lubrication free							
Port size	Rotary cylinder	M5				PT 1/8"			
	Gripper	M5						PT 1/8"	
Cushion		Shock absorber							

MEMO





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