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The Complete Range of Fluid Power Products



Electropneumatics &
Hydraulics (India) Pvt. Ltd.

Fluid Power
Division (FPD)

Electropneumatics Fluid Power Division (FPD)



Electropneumatics and Hydraulics (I) Pvt. Ltd. started its Fluid Power Division with the manufacture of pneumatic valves in 1972. From pneumatic valves, it progressed into making pneumatic cylinders, hydraulic cylinders and hydraulic power units in the following years.

The Division has been designing and manufacturing valves and cylinders for more than 40 years for 24x7 application in different industry sectors like automotive, chemical, steel, pharmaceutical, foundry, machine tool, plastics, textile, packaging, mobile and general engineering. Besides standard products, tailored products are also made to meet customer-specific applications.

The proven designs, ruggedness and stringent testing cycles result in reliable, trouble-free and consistent operations, even in the harshest of environments. The product range encompasses:

Pneumatic Valves

Pneumatic Cylinders

Air-Line Accessories

Hydraulic Cylinders

Hydraulic Power Packs and Systems





Pneumatic Valves, 2-way, 2-position (Solenoid / pilot operated)

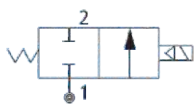
Features

- Direct acting/pilot operated design
- Suitable for air, water and low pressure oil media
- Port sizes up to G 4
- Bubble tight shut off, quick response to actuation
- Mounts in any position
- Continuous duty cycle coil
- Material: Body- brass/gunmetal, Cover- aluminium/brass, Seals- nitrile
- Options: 2/2 NC, NO in solenoid and pilot version, Auto drain valve
- Specials: High pressure 2/2 valve up to 28 bar
- Application: Drain and dispensing

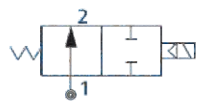


Available types

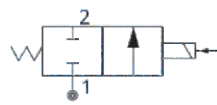
2/2 NC Solenoid



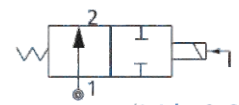
2/2 NO Solenoid



2/2 NC External Pilot



2/2 NO External Pilot



(1- Inlet, 2- Outlet)

Specifications

Direct acting

Port Size	Orifice	Pressure	Flow	Material	Weight	Part Code	
BSP	dia	psi	lpm		kg	Normally closed	Normally open
*G 1/8	1/16"	0 – 125	150	Al	0.2	PVS2018GARADNC1	PVS2018GARADNO1
*G 1/4	1/16"	0 – 125	150	Al	0.2	PVS2014GARADNC1	PVS2014GARADNO1
G 1/2	3/8"	0 – 30	2400	GM	0.4	PVS2012GARGDNC1	—
G 3/4	3/8"	0 – 30	3000	GM	0.5	PVS2034GARGDNC1	—
G 1	3/8"	0 – 30	3000	GM	0.6	PVS2100GARGDNC1	—
G 1 1/4	5/8"	0 – 30	3500	GM	1.4	PVS2114GARGDNC1	—
G 1 1/2	5/8"	0 – 30	3500	GM	1.5	PVS2112GARGDNC1	—

* 3/2 NC and NO versions are also available in G 1/8 and G 1/4 sizes

Diaphragm type

BSP	dia	psi	lpm	Material	kg	Normally closed	Normally open
G 1/2	1/2"	5 – 125	2400	Brass	0.9	PVS2012GDPBINC1	PVS2012GDPBINO1
G 3/4	1"	5 – 125	8000	Brass	1.2	PVS2034GDPBINC1	PVS2034GDPBINO1
G 1	1"	5 – 125	8000	Brass	1.2	PVS2100GDPBINC1	PVS2100GDPBINO1

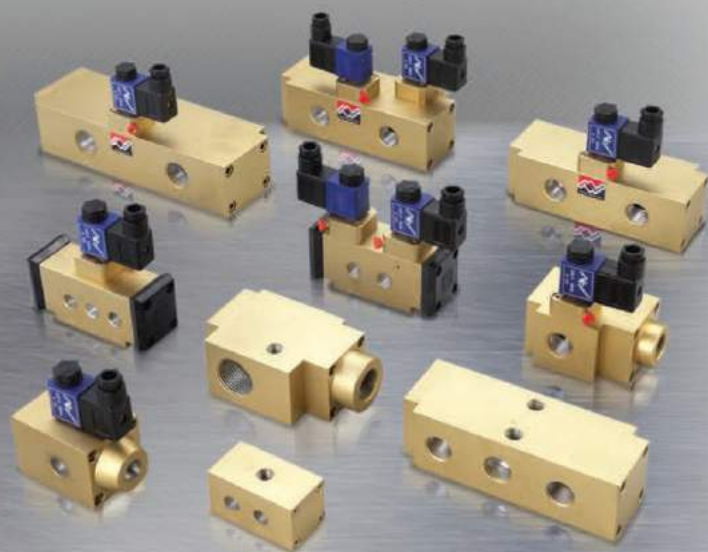
Solenoid- external pilot operated

BSP	dia	psi	lpm	Material	kg	Normally closed	Normally open
G 1/2	3/8"	20 – 125	2400	GM	0.4	PVS2012GARGENC1	PVS2012GARGENO1
G 3/4	1/2"	20 – 125	3000	GM	0.5	PVS2034GARGENC1	PVS2034GARGENO1
G 1	5/8"	20 – 125	3500	GM	0.6	PVS2100GARGENC1	PVS2100GARGENO1
G 1 1/4	3/4"	20 – 125	6000	GM	1.4	PVS2114GARGENC1	PVS2114GARGENO1
G 1 1/2	7/8"	20 – 125	7000	GM	1.5	PVS2112GARGENC1	PVS2112GARGENO1
G 2	1 3/8"	20 – 125	12000	GM	2.3	PVS2200GARGENC1	PVS2200GARGENO1

• Pilot pressure $\geq$ Inlet pressure • For pilot-operated valve, put 'P' instead of 'S' in Part Code • For complete details, refer Product Data Sheet.



Pneumatic Valves, 3-and 4-way, 2-position (Solenoid / pilot operated)

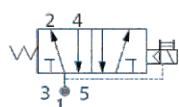


Features

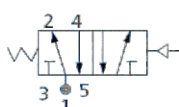
- Sturdy and reliable poppet design
- Port sizes up to G 1 1/2
- Low power solenoid with a range of AC/DC voltages
- Speed up to 600 cycles/min, life up to 10 million cycles
- Manual override as a standard feature
- Material: Body, Piston, Housing- aluminium, Seals- nitrile
- Options: 3/2 NO, NC and 5/2 valve in solenoid and pilot version
- Application: Single-acting and double-acting cylinders

Available types

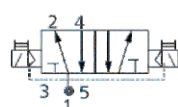
5/2 Single Solenoid



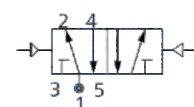
5/2 Single Pilot



5/2 Double Solenoid



5/2 Double Pilot



(1-Inlet, 2,4- Outlet, 3,5- Exhaust)

Specifications

3-way (3/2)

Port Size	Orifice	Pressure	Flow	Material	Weight	Part Code (solenoid opt.)	
BSP	dia	psi	lpm		kg	Normally closed	Normally open
G 1/4	1/4"	25 – 125	1000	Al	0.3	PVS3014GPPA1NC1	PVS3014GPPA1NO1
G 3/8	3/8"	25 – 125	2000	Al	0.7	PVS3038GPPA1NC1	PVS3038GPPA1NO1
G 1/2	1/2"	25 – 125	2400	Al	0.7	PVS3012GPPA1NC1	PVS3012GPPA1NO1
G 3/4	3/4"	25 – 125	5500	Al	1	PVS3034GPPA1NC1	PVS3034GPPA1NO1
G 1	1"	25 – 125	7000	Al	1.8	PVS3100GPPA1NC1	PVS3100GPPA1NO1
G 1 1/4	1 1/4"	25 – 125	10000	Al	2	PVS3114GPPA1NC1	PVS3114GPPA1NO1
G 1 1/2	1 1/2"	25 – 125	16000	Al	4.4	PVS3112GPPA1NC1	PVS3112GPPA1NO1

4-way (5/2)

BSP	dia	psi	lpm	Material	SS	DS	Single solenoid	Double solenoid
* G 1/4	3/16"	25 – 125	700	Al	0.5	0.6	PVS4014G2SA---1	PVS4014G2DA---1
G 3/8	3/8"	25 – 125	2000	Al	1.3	1.3	PVS4038G2SA---1	PVS4038G2DA---1
G 1/2	1/2"	25 – 125	2400	Al	1.2	1.3	PVS4012G2SA---1	PVS4012G2DA---1
G 3/4	3/4"	25 – 125	5500	Al	2.1	2.2	PVS4034G2SA---1	PVS4034G2DA---1
G 1	1"	25 – 125	7000	Al	3.2	3.2	PVS4100G2SA---1	PVS4100G2DA---1
G 1 1/4	1 1/4"	25 – 125	10000	Al	3.8	3.8	PVS4114G2SA---1	PVS4114G2DA---1
G 1 1/2	1 1/2"	25 – 125	16000	Al	4.3	4.4	PVS4112G2SA---1	PVS4112G2DA---1

* G 1/4-5/2 valve is spool type design; SS= single solenoid; DS= double solenoid

• Pilot pressure $\geq$ Inlet pressure • For pilot-operated valve, put 'P' instead of 'S' in Part Code • For complete details, refer Product Data Sheet.



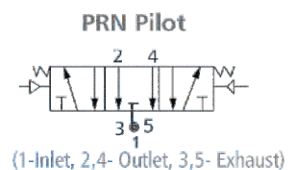
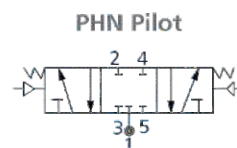
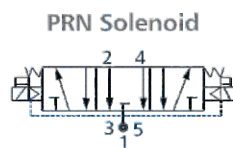
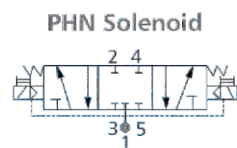
Pneumatic Valves, 4-way, 3-position (Solenoid / pilot operated)



Features

- Sturdy and reliable poppet design
- Port sizes up to G 1 1/2
- Low power solenoid with a range of AC/DC voltages
- Speed up to 600 cycles/min, life up to 10 million cycles
- Manual override as a standard feature
- Material: Body, Piston, Housing- aluminium, Seals- nitrile
- Options: PHN and PRN type in solenoid and pilot version
- Application: Double-acting cylinders and control valves

Available types



Specifications

Solenoid operated (5/3)

Port Size	Orifice	Pressure	Flow	Material	Weight, kg		Part Code	
BSP	dia	psi	lpm		PHN	PRN	PHN	PRN
G 1/4	1/4"	30 – 125	1000	Al	0.7	0.6	PVS4014G3DAPHN1	PVS4014G3DAPRN1
G 3/8	3/8"	30 – 125	2000	Al	1.3	1.4	PVS4038G3DAPHN1	PVS4038G3DAPRN1
G 1/2	1/2"	30 – 125	2400	Al	1.9	1.4	PVS4012G3DAPHN1	PVS4012G3DAPRN1
G 3/4	3/4"	30 – 125	5500	Al	1.9	2.4	PVS4034G3DAPHN1	PVS4034G3DAPRN1
G 1	1"	30 – 125	7000	Al	3.7	3.2	PVS4100G3DAPHN1	PVS4100G3DAPRN1
G 1 1/4	1 1/4"	30 – 125	10000	Al	4.2	4	PVS4114G3DAPHN1	PVS4114G3DAPRN1
G 1 1/2	1 1/2"	30 – 125	16000	Al	4.5	4.5	PVS4112G3DAPHN1	PVS4112G3DAPRN1

Pilot operated (5/3)

BSP	dia	psi	lpm	Material	PHN	PRN	PHN	PRN
G 1/4	1/4"	30 – 125	1000	Al	0.6	0.6	PVPO014G43DPHN1	PVPO014G43DPRN1
G 3/8	3/8"	30 – 125	2000	Al	1.2	1.3	PVPO038G43DPHN1	PVPO038G43DPRN1
G 1/2	1/2"	30 – 125	2400	Al	1.8	1.4	PVPO012G43DPHN1	PVPO012G43DPRN1
G 3/4	3/4"	30 – 125	5500	Al	1.8	2.3	PVPO034G43DPHN1	PVPO034G43DPRN1
G 1	1"	30 – 125	7000	Al	3.5	3	PVPO100G43DPHN1	PVPO100G43DPRN1
G 1 1/4	1 1/4"	30 – 125	10000	Al	4	4	PVPO114G43DPHN1	PVPO114G43DPRN1
G 1 1/2	1 1/2"	30 – 125	16000	Al	4.3	4.3	PVPO112G43DPHN1	PVPO112G43DPRN1



Pneumatic Valves, stackable series

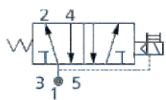


Features

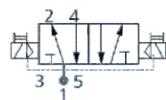
- Internal/external pilot operated poppet design
- Streamlined construction for gang manifold
- Compact size with high flow, improves system appearance and performance
- Mounts in any position
- Continuous duty cycle coil
- Material: Body, Piston, Housing- aluminium, Seals- nitrile
- Options: 3/2, 5/2 and 5/3 types in all sizes

Available types

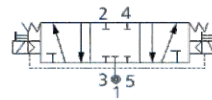
5/2 Single Solenoid



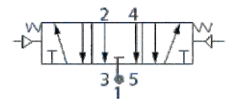
5/2 Double Solenoid



5/3 PHN Solenoid



5/3 PRN Solenoid



(1- Inlet, 2,4- Outlet, 3,5- Exhaust)

Specifications

3-way (3/2)

Port Size	Orifice	Pressure	Flow	Material	Weight	Part Code	
BSP	dia	psi	lpm		kg	Normally closed	Normally open
G 1/8	1/8"	25 – 125	300	Al	0.2	PVSS3018GPPINC1	PVSS3018GPPINO1
G 1/4	1/4"	25 – 125	900	Al	0.4	PVSS3014GPPINC1	PVSS3014GPPINO1
G 3/8	3/8"	25 – 125	2800	Al	1.2	PVSS3038GPPINC1	PVSS3038GPPINO1
G 1/2	1/2"	25 – 125	2800	Al	1.2	PVSS3012GPPINC1	PVSS3012GPPINO1

4-way (5/2)

BSP	dia	psi	lpm	Material	SS	DS	Single solenoid	Double solenoid
G 1/8	1/8"	25 – 125	300	Al	0.17	0.2	PVSS4018G2S---1	PVSS4018G2D---1
G 1/4	1/4"	25 – 125	900	Al	0.4	0.5	PVSS4014G2S---1	PVSS4014G2D---1
G 3/8	3/8"	25 – 125	2800	Al	1.7	1.8	PVSS4038G2S---1	PVSS4038G2D---1
G 1/2	1/2"	25 – 125	2800	Al	1.7	1.8	PVSS4012G2S---1	PVSS4012G2D---1

SS= single solenoid, DS= double solenoid

4-way (5/3)

BSP	dia	psi	lpm	Material	kg	PHN	PRN
G 1/8	1/8"	25 – 125	300	Al	0.2	PVSS4018G3DPHN1	PVSS4018G3DPRN1
G 1/4	1/4"	25 – 125	900	Al	0.5	PVSS4014G3DPHN1	PVSS4014G3DPRN1
G 3/8	3/8"	25 – 125	2800	Al	1.8	PVSS4038G3DPHN1	PVSS4038G3DPRN1
G 1/2	1/2"	25 – 125	2800	Al	1.8	PVSS4012G3DPHN1	PVSS4012G3DPRN1

• For complete details, refer Product Data Sheet.



Pneumatic Valves, manually operated

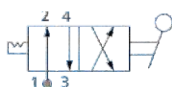
Features

- Robust design with proven performance
- Mounting provision for individual unit
- Very light operating forces
- Normally open and normally closed models
- Material: Body, Piston- aluminium/brass, Seals- nitrile
- Options: 2/2 NO and NC version in roller and foot pedal

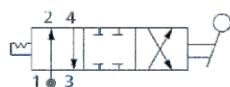


Available types

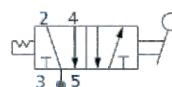
4/2 Hand Rotary



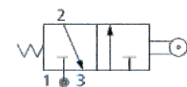
4/3 Hand Rotary



5/2 Hand Lever



3/2 Roller Operated



(1- Inlet, 2,4- Outlet, 3,5- Exhaust)

Specifications

Hand rotary valve (4/2 and 4/3)

Port Size	Orifice	Pressure	Flow	Material	Weight kg		Part Code	
BSP	dia	psi	lpm		4/2	4/3	4/2	4/3 PHN
G 1/4	1/4"	0 – 125	1200	Al	1.3	1.6	PVMO014G4RHL2---1	PVMO014G4RHL3PHN1
G 3/8	3/8"	0 – 125	2000	Al	1.3	1.6	PVMO038G4RHL2---1	PVMO038G4RHL3PHN1
G 1/2	3/8"	0 – 125	2000	Al	1.3	3	PVMO012G4RHL2---1	PVMO012G4RHL3PHN1
G 3/4	1/2"	0 – 125	3000	Al	—	3	—	PVMO034G4RHL3PHN1
G1	1"	0 – 125	7000	Al	—	6	—	PVMO100G4RHL3PHN1
G 1 1/2	1 1/4"	0 – 125	10000	Al	—	15	—	PVMO112G4RHL3PHN1

Roller operated valve (3/2)

BSP	dia	psi	lpm	Material	kg	Normally closed	Normally open
G 1/4	1/4"	0 – 125	1000	Al	0.3	PVMO014G3RLR-NC-1	PVMO014G3RLR-NO-1
G 3/8	3/8"	0 – 125	2000	Al	0.5	PVMO038G3RLR-NC-1	PVMO038G3RLR-NO-1
G 1/2	1/2"	0 – 125	2400	Al	0.9	PVMO012G3RLR-NC-1	PVMO012G3RLR-NO-1
G 3/4	3/4"	0 – 125	5500	Al	0.9	PVMO034G3RLR-NC-1	PVMO034G3RLR-NO-1

* 2/2 NO and NC versions available

Foot pedal valve (3/2)

BSP	dia	psi	lpm	Material	kg	Normally closed	Normally open
G 1/4	1/4"	0 – 125	1000	Al	1	PVMO014G3FTP-NC-1	PVMO014G3FTP-NO-1
G 3/8	3/8"	0 – 125	2000	Al	1	PVMO038G3FTP-NC-1	PVMO038G3FTP-NO-1

* 2/2 NO and NC versions available

Hand lever valve (5/2 and 5/3)

BSP	dia	psi	lpm	Material	kg	5/2	5/3PHN
G 1/4	1/4"	0 – 125	1000	Al	0.7	PVMO014GHLR2---1	PVMO014G4HLR3PHN1

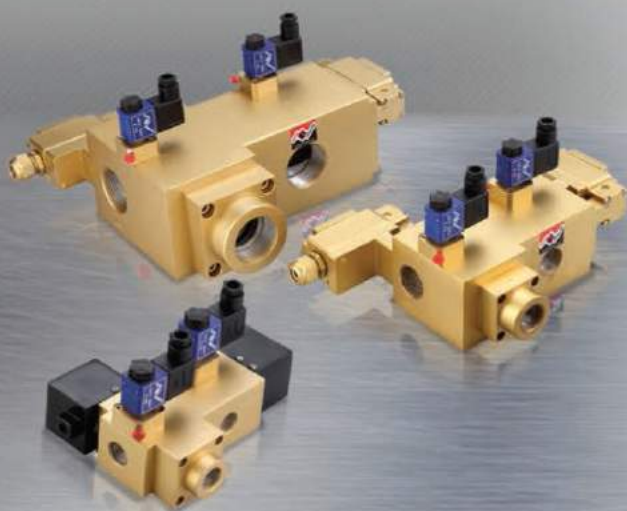
• For complete details, refer Product Data Sheet.



Pneumatic Valves, dual sensing

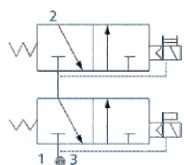
Features

- Optimum poppet technology for high shift consistency
- High flow and dirt tolerant
- Valves supplied with switch reactor
- Application: Used as safety valve in power presses and for clutch/brake controls



Available types

3/2 NC Connected Valve

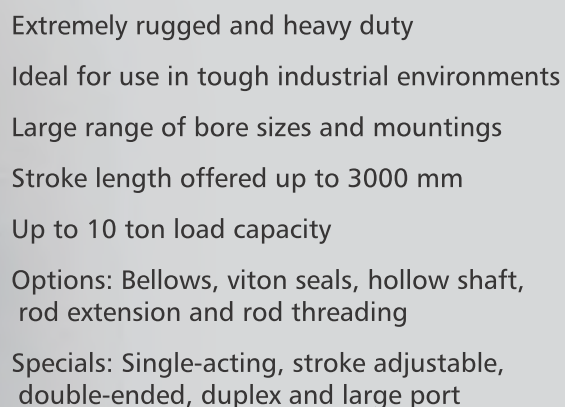


(1- Inlet, 2- Outlet, 3- Exhaust)

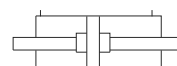
Specifications

Port Size	Orifice	Pressure	Flow	Material	Weight	Part Code
BSP	dia	psi	lpm		kg	
G 1/2	1/2"	30 – 125	2400	Al	1.5	PVS3012GDSAINC1
G 3/4	3/4"	30 – 125	5500	Al	3.9	PVS3034GDSAINC1
G 1	1"	30 – 125	7000	Al	4	PVS3100GDSAINC1
G 1 1/2	1 1/2"	30 – 125	16000	Al	9	PVS3112GDSAINC1

• For complete details, refer Product Data Sheet.



Double-Ended

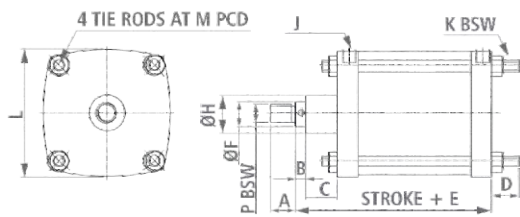


Bore sizes	25, 40, 50, 65, 75, 100, 125, 150, 200, 250, 300, 350 mm
Medium	Compressed air (filtered and lubricated)
Design	Piston cylinder with cushion/non-cushion version
Pressure range	7 to 150 psi (0.5 to 10 bar)
Temperature range	-10 °C to 60 °C, up to 150 °C with viton seals
Construction	End covers- cast iron, Tube- mild steel seamless honed and hard chrome plated, Piston rod- EN-8 hard chrome plated, stainless steel (optional), Piston- cast iron/aluminium, Mountings- mild steel/ cast iron, Seals- NBR

FPC	S	A	A	1	150	I	0250	X	X	X
	Stan ar			Cus n		Ram sizeA 5	Stroke	Type 1X	Type 2X	Type 3X
PressureA	150 s			N n- us n	Bore size25	B 9.5 E 19.3 H 25.6 I 35.1 K 38.1 L 44.5 M 50.8 N 58.4		Stan ar	Stan ar (BS)	Stan ar
MountingsA								1 Str e a usta le	1 Metr t rea	9 R e tens n
r nt lan e	G	t						2 D u le en e	2 e ale n es	0 S e al
B Rear lan e	I	Stu		40	150			3 Lar e rt	3 e ale etr	
C Rear e e	J	Ne		50	200			4 Du le	4 H ll ale	
D Rear trunn n	K	Bas		65	250			5 Sn lea tn	5 H ll e ale	
E Inter e ate trunn n				75	300				6 V t n seal	
Centre trunn n				100	350					

Dimensions

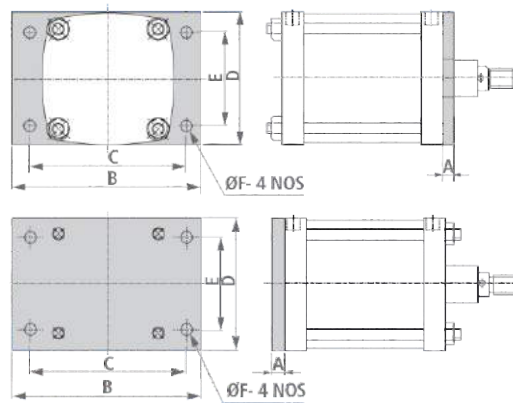
(All dimensions in mm)



Basic

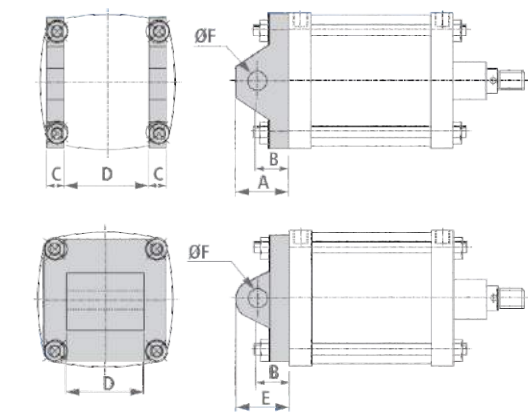
Bore	25	40	50	65	75	100	125	150	200	250	300	350
A	12	19	19	19	19	25	32	32	45	50	50	50
B	8	13	15	15	15	15	19	19	19	19	21	24
C	15	28.5	25	25	32	25	38	38	57	57	60	60
D	20	25	25	25	30	30	40	40	45	45	50	55
*E	78	127	138	141	160	159	215	206	238	247	252	328
F	9.6	19.3	19.3	19.3	19.3	25.6	35.1	35.1	38.1	44.5	50.8	58.4
H	24	38	43	43	47	48	60	60	65	76	86	105
J	G 1/8	G 1/4	G 1/4	G 1/4	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 3/4	G 3/4	G 1
K	3/16"	1/4"	1/4"	1/4"	3/8"	3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"
L	38	50.5	63.5	77.5	92	119	146	170	225	278	330	390
M	35.5	54	68	83	99	125	152.5	179	241.5	294	351	400
P	M8	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	1 3/4"	1 3/4"

* Stroke length above 1000 mm offered with stop tube



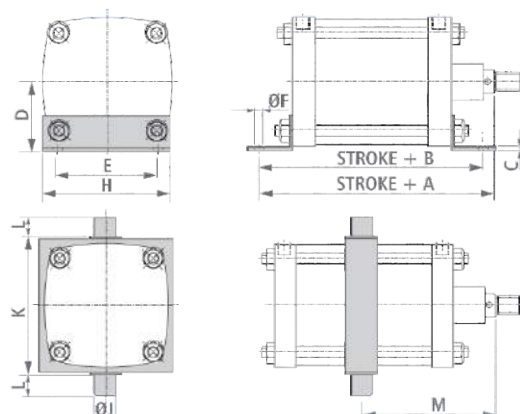
Front and rear flange mounting

Bore	25	40	50	65	75	100	125	150	200	250	300	350
A	8	9.5	9.5	9.5	12.5	12.5	13	13	19	19	25.5	30
B	70	95	108	121	152	178	203	228	324	384	451	515
C	55	73	86	98.5	120.5	146	168	190	268	323	401	455
D	38	50.5	64	77	92	120	146	170	222	273	325	375
E	25	28.5	42	54	63.5	89	118	133.5	159	216	254	265
F	5	10	10	10	13.5	13.5	13.5	13.5	20	20	26	26



Rear trunnion and rear eye mounting

Bore	25	40	50	65	75	100	125	150	200	250	300	350
A	—	32	35	38	48	54	70	70	89	102	121	125
B	15.5	21	22.5	24.5	32	38	44	44	54	57	77	80
C	—	10	10	10	16	16	21	21	32	32	38	40
D	12	28	38	48.6	54	72.4	86.8	105.5	138.8	176	210.2	242.8
E	28	31	35	40.5	51	57	70	70	86	95	115	120
F	9.5	9.5	12.7	16	19	19	25.4	25.4	31.8	38.1	38.1	40

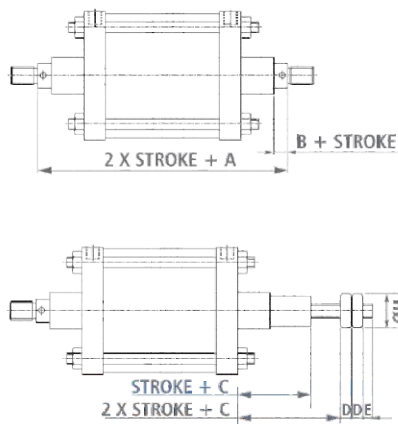


Foot and centre trunnion mounting

Bore	25	40	50	65	75	100	125	150	200	250	300	350
A	92	148.5	163	166	197	197	257	248	296	305	322	398
B	83	128.5	148	151	187	195	242	233	278	287	311	384
C	3	3.5	3.5	5	6	6	6	6	8	8	10	10
D	26.5	33	36.8	42.3	57	66.7	79	88	120.4	140	168.5	210
E	25	50	38	56.5	66	95	114.5	141	176	202	266	315
F	5	7	10	10	13.5	13.5	13.5	13.5	20	20	26	26
H	38	63	62.5	77	92	121	146	171	222	265	324	375
J	8	10	12	16	19	25.4	31.8	31.8	38.1	44.5	50.8	57
K	42	60	76	92	108	136	164	191	251	311	371	426
L	10	12	12	16	19	25	32	32	38	40	45	50
M	Customer to specify											

• For complete details, refer Product Data Sheet.

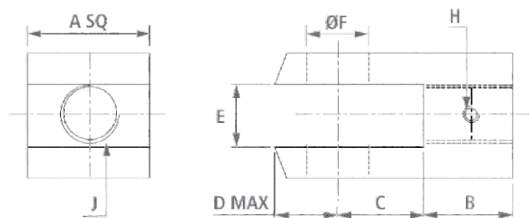
Double-ended and stroke adjustable cylinder



Bore	A	B	C	D	E	H
25	101	8	15	—	—	—
40	168.5	13	28.5	14	10	38
50	178	15	25	14	10	38
65	181	15	25	14	10	38
75	207	15	32	14	10	38
100	199	15	25	20	10	45
125	272	19	38	25	10	55
150	263	19	38	25	10	55
200	314	19	57	30	10	60
250	323	19	57	35	10	70
300	333	21	60	40	10	75
350	412	24	60	50	10	90

Cylinder accessories

Rod fork



Standard pneumatic cylinder

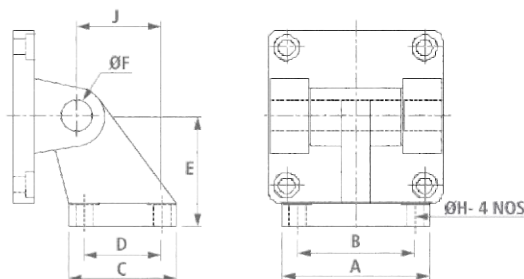
Bore	A	B	C	D	E	F	H	J
25	18	12	13	12	10	8	M4	M8
40	28	20	19	16	15	10	M6	1/2" BSW
50, 65	28	20	20	19	15	12	M6	1/2" BSW
75	35	20	22	24	17	16	M6	1/2" BSW
100	45	26	28	30	25	19	M6	3/4" BSW
125, 150	54	32	32	40	30	25.4	M8	1" BSW
200	64	45	36	50	32	31.8	M8	1 1/4" BSW
250	76	50	45	55	40	38.1	M8	1 1/2" BSW
300, 350	90	50	52	60	50	40	M8	1 3/4" BSW

ISO pneumatic cylinder

32	20	20	20	12	10.2	10	—	M10X1.25
40	24	24	24	14	12.2	12	—	M12X1.25
50, 63	30	34	32	16	16.2	16	—	M16X1.5
80, 100	38	40	40	19	20.2	20	—	M20X1.5
125	55	55	55	45	30	30	—	M27X2

* Rod yoke type, rod end aligner and rod end spherical eye is also available

Hinge mounting



Standard pneumatic cylinder

Bore	A	B	C	D	E	F	H	J
40	54	41	35	22	36	9.5	6.6	24
50	65	50	45	30	45	12.7	9	33
65	67	52	50	35	50	16	9	37
75	86	66	60	40	63	19	11	47
100	96	76	70	50	71	19	11	55
125	124	94	90	60	90	25.4	14	70
150	148	118	118	88	115	25.4	16	97
200	162	122	130	90	135	31.8	16	105
250	200	150	160	110	165	38.1	22	128
300	230	170	182	122	200	38.1	27	150
350	260	200	210	150	225	40	27	175

ISO pneumatic cylinder

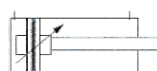
32	51	38	31	18	32	10	6.6	21
40	54	41	45	22	36	12	6.6	24
50	65	50	45	30	45	12	9	33
63	67	52	50	35	50	16	9	37
80	86	66	60	40	63	16	11	47
100	96	76	70	50	71	20	11	55
125	124	94	90	60	90	25	14	70



- Light weight with high strength
- Dimensions as per ISO 6431
- Stroke length offered up to 2500 mm
- Fully adjustable cushioning at both ends
- Options: Bellows, hollow shaft, rod extension and rod threading
- Specials: Reed switch, single-acting, stroke adjustable, double-ended and duplex
- Ideal for use in most demanding automation applications

Available types

Cushion



Specifications

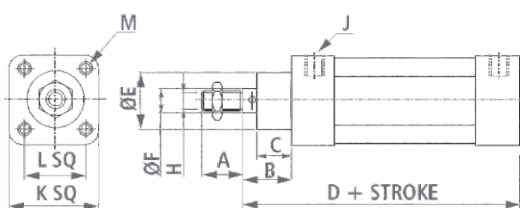
Bore sizes	32, 40, 50, 63, 80, 100, 125 mm
Medium	Compressed air (filtered and lubricated)
Design	Piston cylinder with cushion/non-cushion version
Pressure range	7 to 150 psi (0.5 to 10 bar)
Temperature range	-10 °C to 60 °C
Construction	End covers- nylon, aluminium (optional), Tube- 'Mickey Mouse' profile aluminium semi-hard anodised, Piston rod- EN-8 hard chrome plated, stainless steel (optional), Piston- nylon, aluminium (optional), Mountings- mild steel/cast iron, Seals- NBR

Ordering code

[illegible]

Dimensions

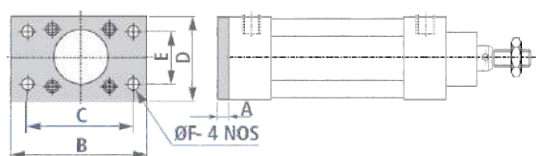
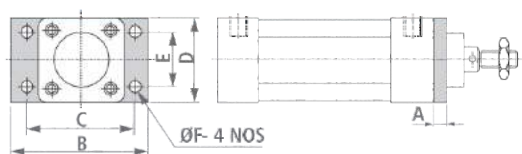
(All dimensions in mm)



Basic

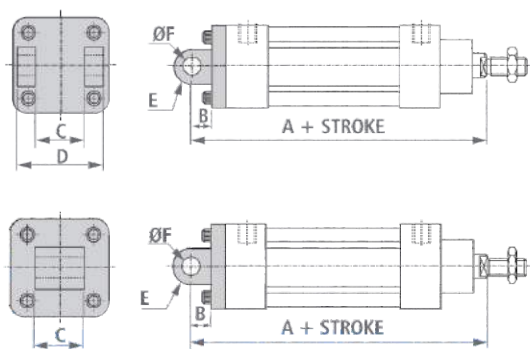
Bore	32	40	50	63	80	100	125
A	22	24	32	32	40	40	54
B	24	29.5	34.5	34.5	42.5	47.5	58
C	18	19.5	19.5	19.5	27.5	32.5	38
*D	122	135.5	145.5	160.5	177.5	192.5	232
E	30	36	43	43	48	48	60
F	12	16	20	20	25	25	36
H	M10X1.25	M12X1.25	M16X1.5	M16X1.5	M20X1.5	M20X1.5	M27X2
J	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2
K	47	55	66	76	97	114	137
L	32.5	38	46.5	56.5	72	89	110
M	M6X1	M6X1	M8X 1.25	M8X 1.25	M10X1.5	M10X1.5	M12X1.75

* Stroke length above 1000 mm offered with stop tube



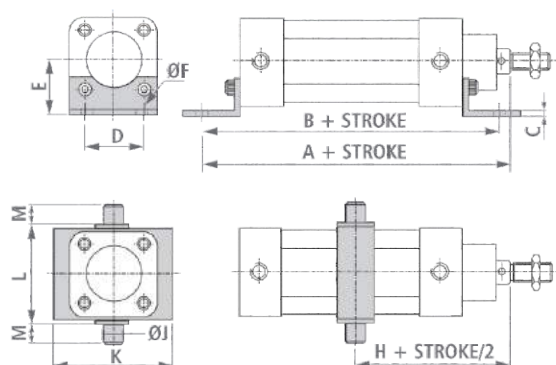
Front and rear flange mounting

Bore	32	40	50	63	80	100	125
A	8	9.5	9.5	9.5	12.5	12.5	13
B	81	95	108	120	152	178	215
C	64	72	90	100	126	150	180
D	47	55	66	76	97	114	137
E	32	36	45	50	63	75	90
F	7	9	9	9	12	14	16



Rear clevis and rear eye mounting

Bore	32	40	50	63	80	100	125
A	142	160	170	190	210	230	275
B	12	15	15	20	20	25	30
C	26	28	32	40	50	60	70
D	45	52	60	70	90	110	130
E	R10	R12	R12	R16	R16	R20	R25
F	10	12	12	16	16	20	25



Foot and centre trunnion mounting

Bore	32	40	50	63	80	100	125
A	144	163	175	190	215	230	270
B	142	161	170	185	210	220	250
C	3	3.5	3.5	5	7	7	7
D	32	36	45	50	63	75	90
E	32	36	45	50	63	71	90
F	7	9	9	9	12	14	16
H	73	82.5	90	97.5	110	120	145
J	12	16	16	20	20	25	25
K	65	75	95	105	130	145	175
L	50	63	75	90	110	132	160
M	12	16	16	20	20	25	25

• For complete details, refer Product Data Sheet.



ISO Pneumatic Cylinders (Series S)

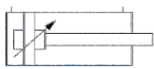


Features

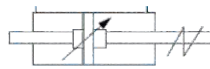
- High performance cylinders for modern demands
- Polyurethane seal ensures long life and high speed
- Dimensions as per ISO 15552, VDMA 24562
- Modern type injection moulded reed switch
- Minimum pressure to move cylinder is 3 psi
- Options: Bellows, viton seals, hollow shaft, rod extension and rod threading
- Specials: Reed switch, single-acting, stroke adjustable, double-ended and duplex

Available types

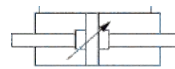
Cushion



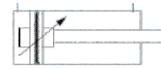
Stroke Adjustable



Double-Ended



Reed Switch



Specifications

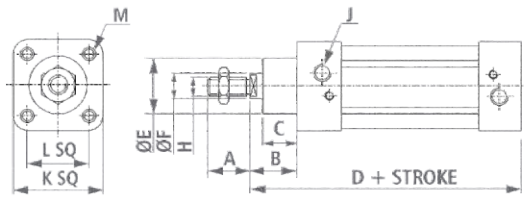
Bore sizes	32, 40, 50, 63, 80, 100, 125 mm
Medium	Compressed air (filtered and lubricated)
Design	Piston cylinder with magnetic and non magnetic version
Pressure range	7 to 150 psi (0.5 to 10 bar)
Temperature range	-10 °C to 60 °C, up to 150 °C with viton seals
Construction	End covers- aluminium, Tube- 'Square' profile aluminium semi-hard anodised, Piston rod- EN-8 hard chrome plated, stainless steel (optional), Piston- aluminium, Mountings- mild steel/cast iron, Seals- NBR, polyurethane

Ordering code

FPC	N	A	C	1	80	G	0125	X	X	X
	N ISO New			1 Cushion			Stroke			
Pressure	A 150 psi									
Mountings										
A Front flange	G Foot									
B Rear flange	I Stud									
C Rear eye	J Neck									
D Rear clevis	K Basic									
E Intermediate trunnion										
F Centre trunnion										
Bore size										
32	125									
40										
50										
63										
80										
100										
Ram size										
C 12										
D 16										
F 20										
G 25										
P 32										
Type 1										
X Standard										
1 Stroke adjustable										
2 Double ended										
4 Duplex										
5 Single acting										
6 Reed switch										
Type 2										
X Std. (metric)										
3 Female metric										
4 Hollow male										
5 Hollow female										
6 Viton Seal										
Type 3										
X Standard										
9 Rod extension										
0 Special										

Dimensions

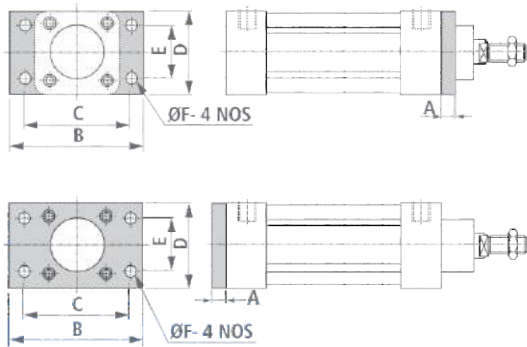
(All dimensions in mm)



Basic

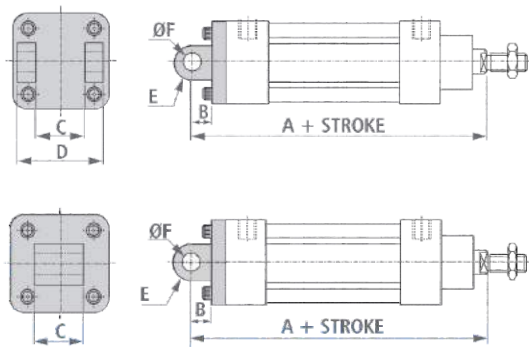
Bore	32	40	50	63	80	100	125
A	22	24	32	32	40	40	54
B	26	30	37	37	48	51	65
C	16	20	27	27	32	33	45
*D	120	135	143	158	174	189	225
E	30	35	40	45	45	55	60
F	12	16	20	20	25	25	32
H	M10X1.25	M12X1.25	M16X1.5	M16X1.5	M20X1.5	M20X1.5	M27X2
J	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2
K	47	53.5	63.5	75	95	113	140
L	32.5	38	46.5	56.5	72	89	110
M	M6X1	M6X1	M8X1.25	M8X1.25	M10X1.5	M10X1.5	M12X1.75

* Stroke length above 1000 mm offered with stop tube



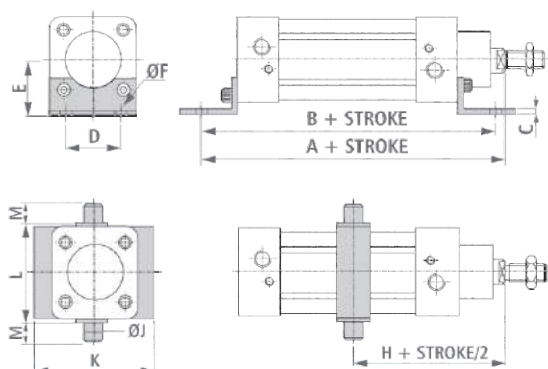
Front and rear flange mounting

Bore	32	40	50	63	80	100	125
A	10	10	12	12	16	16	20
B	80	90	110	120	150	170	224
C	64	72	90	100	126	150	180
D	46	54	64	75	95	112	140
E	32	36	45	50	63	75	90
F	7	9	9	9	12	14	16



Rear clevis and rear eye mounting

Bore	32	40	50	63	80	100	125
A	142	160	170	190	210	230	275
B	14	15	16	20	22	27	31
C	26	28	32	40	50	60	70
D	45	52	60	70	90	110	130
E	R 10	R 13	R 13	R 17	R 17	R 20	R 25
F	10	12	12	16	16	20	25



Foot and centre trunnion mounting

Bore	32	40	50	63	80	100	125
A	144	163	175	190	215	230	270
B	142	161	170	185	210	220	250
C	3	3.5	3.5	5	7	7	7
D	32	36	45	50	63	75	90
E	32	36	45	50	63	71	90
F	7	9	9	9	12	14	16
H	73	82.5	90	97.5	110	120	145
J	12	16	16	20	20	25	25
K	65	75	95	105	130	145	175
L	50	63	75	90	110	132	160
M	12	16	16	20	20	25	25

• For complete details, refer Product Data Sheet.



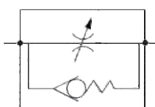
Air-Line Accessories

Features

- Rugged and durable design
- Works up to 10 bar pressure
- Used to perform supportive pneumatic functions
- Variety
 - Flow control valves with fine regulation
 - Quick exhaust valves for higher cylinder speeds
 - Inline check valves with low closing pressure
 - High pressure (20 bar) inline check valves
 - Rotor seal coupling in sizes up to G 1 1/2
 - Inline mounted hand slide valves
 - Silencers
 - Air blow guns

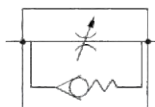


Port Size BSP	Flow lpm	Part Code
Inline flow control valve		



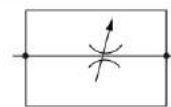
G 1/4	1000	PVFC014G1
G 1/2	2000	PVFC012G1
G 3/4	4000	PVFC034G1

Port Size BSP	Flow lpm	Part Code
Flow control valve		



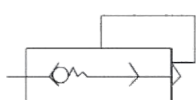
G 1/4	650	PVFC014G2
G 1/2	1800	PVFC012G2
G 3/4	3000	PVFC034G2

Port Size BSP	Flow lpm	Part Code
Needle valve		



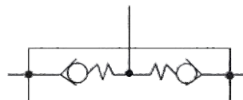
G 1/4	1000	PVNL014G1
G 1/2	2000	PVNL012G1
G 3/4	4000	PVNL034G1

Quick exhaust valve		
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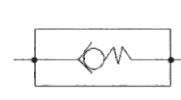
G 1/4	1500	PVQE014G1
G 3/8	2500	PVQE038G1
G 1/2	4500	PVQE012G1
G 3/4	8000	PVQE034G1
G 1	10000	PVQE100G1
G 1 1/2	12000	PVQE112G1

Shuttle valve		
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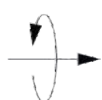
G 1/4	1100	FPVS014G1
G 3/8	2500	FPVS038G1
G 1/2	4200	FPVS012G1
G 3/4	5500	FPVS034G1
G 1	7000	FPVS100G1

Inline check valve		
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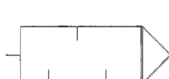
G 1/4	1000	PVNR014GA1251
G 3/8	2800	PVNR038GA1251
G 1/2	4500	PVNR012GA1251
G 3/4	8000	PVNR034GA1251
G 1	10000	PVNR100GA1251

Rotor seal coupling		
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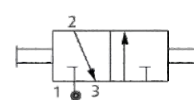
G 1/4	PVRS014GAARRH1
G 3/8	PVRS038GAARRH1
G 1/2	PVRS012GAARRH1
G 3/4	PVRS034GAARRH1
G 1	PVRS100GAARRH1
G 1 1/4	PVRS114GAARRH1
G 1 1/2	PVRS112GAARRH1

Silencer		
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G 1/4	PVS014G1
G 3/8	PVS038G1
G 1/2	PVS012G1
G 3/4	PVS034G1
G 1	PVS100G1
G 1 1/4	PVS114G1
G 1 1/2	PVS112G1

Hand slide valve		
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G 1/4	1000	PVHS014G1
G 3/8	2800	PVHS038G1
G 1/2	4000	PVHS012G1
G 3/4	8000	PVHS034G1

- LH, RH threading and stainless steel shaft also available for Rotor seal coupling.
- For complete details, refer Product Data Sheet.



Standard Hydraulic Cylinders



Features

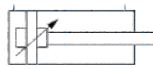
- Long established design, proven ruggedness and reliability
- PTFE seals and bearing strips ensure perfect sealing and smooth movement
- Externally removable bolt-on cartridge assembly
- Stroke length offered up to 3500 mm
- Working pressure up to 200 bar
- Options: Bellows, rod extension and rod threading
- Specials: Bore above dia. 300 mm, LVDT, double-ended, stroke adjustable, large ports, working pressure up to 345 bar

Available types

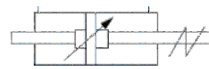
Non-Cushion



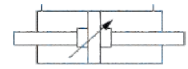
Cushion



Stroke Adjustable



Double-Ended



Specifications

Bore sizes	40, 50, 65, 75, 100, 125, 150, 200, 250, 300 mm
Medium	Mineral oil (ISO VG 68)
Design	Piston cylinder with cushion/non-cushion version
Pressure range	Up to 3000 psi (200 bar), 345 bar on request
Temperature range	-10 °C to 60 °C, up to 150 °C with viton seals
Construction	End covers- mild steel, Tube- mild steel seamless honed, Piston rod- EN-8 hard chrome plated, stainless steel (optional), Piston- mild steel, Mountings- mild steel/cast iron, Seals- PTFE, NBR

Ordering code

FHC	S	A	A	1	150	G	0450	X	X	X
J Jack	S Standard			1 Cushion			Stroke			
I Intensifier		Pressure		2 Non-cushion		Ram size		Type 1	Type 2	Type 3
C Swing clamp		A 3000 psi		3 Front cushion		A 25.6		X Standard	X Std. (metric)	X Standard
		B 5000 psi		4 Rear cushion		B 35.1		1 Stroke adjustable	1 Female inches	9 Rod extension
Mountings						C 45.8		2 Double ended	2 Female metric	0 Special
A Front flange rectangular						D 50.8		3 Large Port	3 Viton seal	
B Rear flange rectangular						E 58.4				
C Front flange round						F 74.6				
D Rear flange round						G 85.8				
E Rear clevis square						H 103				
						I 130.5				
						J 181.5				

• Custom made hydraulic cylinder can be made on request.



Air Preparation Units



Features

- Modular style, pre-assembled, ready to install
- Suitable for wall mounting
- Bronze type filtering element
- Relieving type diaphragm operated regulator
- Non-rising adjusting knob with snap action lock
- Good flow and regulating characteristics
- Fine adjustment of lubrication
- Quick release bayonet bowl

Available types

Filter



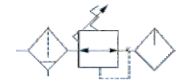
Regulator



Lubricator



Filter, Regulator, Lubricator



Specifications

Port Size	G 1/8	G 1/4	G 3/8	G 1/2	G 3/4	G 1
Flow rate (lpm)	500	2000	4000	4000	5000	5000
Fluid (media)	Compressed air					
Pressure	Operating: 0.5 to 10 bar, Proof: 15 bar					
Temperature range	5 °C to 60 °C					
Filter material	Sintered bronze, plastic (polypropylene)					
Filter rating	Standard: 25 µm, Optional: 5 µm					
Oil recommended	Turbine oil (ISO VG 32)					
Bowl material	Polycarbonate bowl with metal guard					
Regulator construction	Relieving, diaphragm type					
Drain type	Differential (semi-automatic) and automatic					

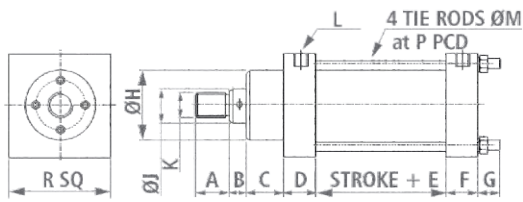
Ordering code

Filter	EPF-200-18	EPF-300-14	EPF-400-38	EPF-400-12	EPF-500-34	EPF-500-01
Regulator	EPR-200-18	EPR-300-14	EPR-400-38	EPR-400-12	EPR-500-34	EPR-500-01
Lubricator	EPL-200-18	EPL-300-14	EPL-400-38	EPL-400-12	EPL-500-34	EPL-500-01
Filter, Regulator	EPM-200-18	EPM-300-14	EPM-400-38	EPM-400-12	EPM-500-34	EPM-500-01
Filter, Regulator and Lubricator	EPC-200-18	EPC-300-14	EPC-400-38	EPC-400-12	EPC-500-34	EPC-500-01
Filter, Regulator, Lubricator	EPU-200-18	EPU-300-14	EPU-400-38	EPU-400-12	EPU-500-34	EPU-500-01

• For complete details, refer Product Data Sheet.

Dimensions

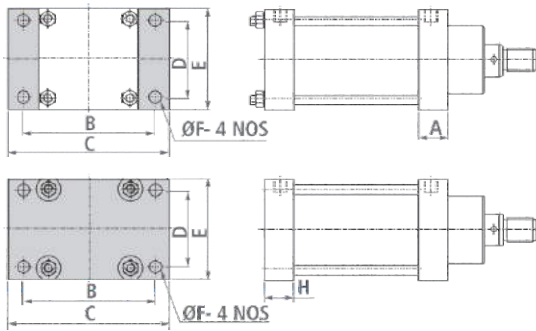
(All dimensions in mm)



Basic

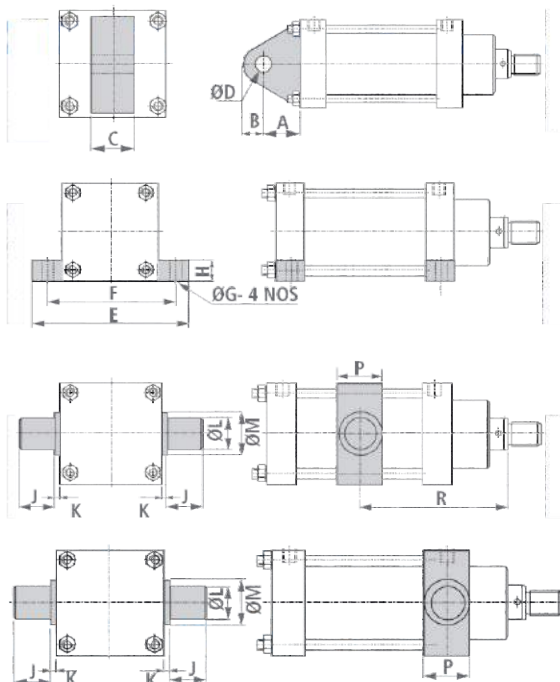
Bore	40	50	65	75	100	125	150
A	26	26	32	50	50	50	64
B	16	16	19	26	26	26	30
C	47	47	47	61	60	60	60
D	32	35	41	42	52	52	53
*E	65	65	77	85	92	102	107
F	24	26	32	32	45	45	45
G	32	33	33	37	42	46	46
H	68	68	77	100	115	115	146
J	25.6	25.6	35.1	45.8	58.4	58.4	85.8
K	M20X2.5	M20X2.5	M24X3	M33X3.5	M45X4.5	M45X4.5	M70X3
L	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 3/4	G 3/4
M	8	10	10	12	20	24	24
P	60	77	88	105	141.5	178	204
R	69	74	82	102	140	175	198

* Stroke length above 1000 mm offered with stop tube.



Front and rear flange mounting

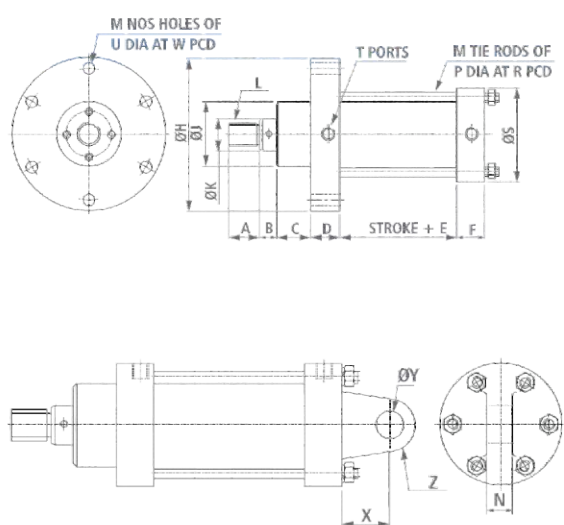
Bore	40	50	65	75	100	125	150
A	35	35	41	42	56	56	58
B	90	100	106	132	188	230	256
C	112	120	130	158	228	280	306
D	47	50	55	75	100	125	148
E	69	74	82	102	140	175	198
F	11	11	11	13	22	26	26
H	36	40	46	46	60	65	65



Clevis, foot, intermediate trunnion and front trunnion mounting

Bore	40	50	65	75	100	125	150
A	30	36	36	43	62	72	85
B	18	22	22	28	40	50	55
C	20	30	30	40	50	60	65
D	15	20	20	25	35	45	50
E	116	120	130	158	228	280	306
F	96	100	106	132	188	230	256
G	11	11	13	13	22	26	26
H	15	20	25	25	30	40	40
J	30	35	35	44	44	44	50
K	5	5	5	5	5	5	5
L	30	35	35	44	44	44	50
M	40	50	50	60	60	67	85
P	40	50	50	60	60	67	85
R	Customer to specify						

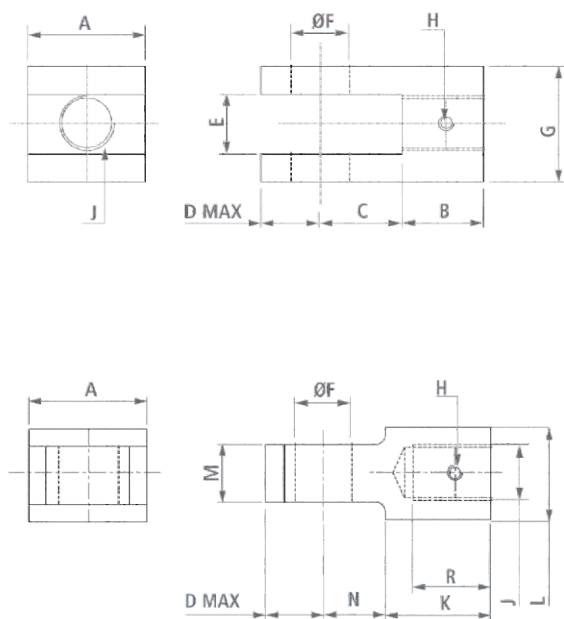
• For complete details, refer Product Data Sheet.



Front flange and rear clevis mounting, round type

Bore	40	50	65	75	100	125	150	200	250	300
A	26	26	32	50	50	50	64	76	80	120
B	16	16	19	26	26	26	30	30	30	35
C	47	47	47	61	60	60	60	59	59	70
D	32	34	41	42	56	56	58	59	59	62
*E	65	65	77	85	92	102	107	119	129	139
F	24	26	32	32	45	45	45	48	48	62
H	115	145	157	185	265	295	350	415	480	550
J	68	68	77	100	115	115	146	167	195	261
K	25.6	25.6	35.1	45.8	58.4	58.4	85.8	103	130.5	181.5
L	M20X2.5	M20X2.5	M24X3	M33X3.5	M45X4.5	M45X4.5	M70X3	M75X3	M100X3	M150X5
M	6	6	6	6	6	6	6	8	10	16
N	20	30	30	40	50	60	65	75	100	120
P	8	10	10	12	20	20	24	24	24	24
R	60	77	88	105	141.5	172.5	204	267	332	403
S	77	98	110	130	180	210	251	315	380	450
T	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
U	9	11	11	13	22	22	26	26	26	26
W	96	122	135	160	225	255	305	370	435	505
X	30	36	36	43	62	72	85	120	150	170
Y	15	20	20	25	35	45	50	75	100	120
Z	R18	R22	R22	R28	R40	R50	R55	R90	R120	R140

Cylinder accessories



Rod fork and rod yoke

Bore	40	50	65	75	100	125	150
A	36	44	48	56	80	100	110
B	28	28	35	52	52	52	66
C	23	27	29	33	45	55	60
D	18	22	24	28	40	50	55
E	24	30	30	40	50	60	70
F	15	20	20	25	35	43	50
G	48	65	65	86	106	125	140
H	M8	M8	M8	M8	M8	M10	M10
J	M20X2.5	M20X2.5	M24X3	M33X3.5	M45X4.5	M45X4.5	M70X3
K	35	38	50	70	70	—	90
L	30	30	36	46	60	—	86
M	20	30	30	40	50	60	70
N	27	32	32	36	50	120	68
R	26	26	32	50	50	50	64



Hydraulic Power Packs and Systems



From simple single pump-motor power packs to sophisticated multi pump-motor hydraulic systems in open loop, we have the expertise and experience of 30 years to design and build hydraulic power systems to meet your requirement.

Using modern-technology hydraulic elements, modular manifold construction, electrical interlocks and the latest design and building techniques in hydraulics, we can provide our customers with energy-efficient, reliable hydraulic power systems. These power systems can be supplied along with hydraulic cylinders and controls for operation.

Options

- Fixed displacement or variable displacement pump systems
- Conventional, proportional or servo technology valve system
- Flow handling capacities of up to 1000 lpm, pressures up to 700 bar
- All systems are built to cleanliness level of NAS class 6
- Electric servo pump driven system for superior energy efficiency
- Intensifiers for high pressure applications up to 2000 bar are available
- Clean rust-proof stainless steel tank power systems for pharmaceutical, food industry and special applications
- Systems suitable for water glycol and other fire resistant fluids also available



Pneumo-Hydraulic Booster Pumps



Features

- Design of pressure intensification up to 1000 bar
- Works on the principle of different bore area ratios
- Suitable for oil, water and various other fluids
- Available in various bore area ratios
- Option: Double-acting booster pumps with higher displacement per stroke, higher capacity hydraulic tanks
- Application: Pressure testing of valves, pressure vessels, fittings, hoses and pipes. Used as power source for clamp heads, hydraulic actuators and expansion of AC condenser coils

Specifications

Model No./Ordering Code	FBP1:013T1	FBP1:019T1	FBP1:035T1	FBP1:064T1	FBP1:144T1
Bore area ratio	01:13	01:19	01:35	1:64	1:144
Displacement per stroke (cc)	100	100	50	12	12
Maximum pneumatic input pressure (psi)	100	100	100	100	100
Minimum pneumatic input pressure (psi)	25	25	25	25	25
Hydraulic outlet pressure when operated at 100 psi pneumatic input pressure (psi)	1300	1900	3500	6400	14400
Hydraulic tank capacity (ltr.)	75	75	75	75	75
Type	Pneumo-hydraulic, single-acting, self reciprocating				
Actuation	By means of 4 way 5 port double pilot operated directional control valve				



Speciality Products



Hydraulic jacks used in construction industry



Servo cylinders for precision control in industrial testing equipment and SPMs



Stainless steel cylinders used in chemical plants, food and pharmaceutical industry



Swing clamp cylinders with locking arrangement and valve stand for machine tools, SPMs, high temperature furnaces, etc.



Large bore single-acting cylinders used in big hydraulic presses



Miniature ISO pneumatic cylinders in bore size 10, 12, 16, 20, 25 mm as per ISO 6432



Compact, light-weight pneumatic cylinders in bore size 32, 40, 50, 63, 80, 100 mm



Pneumatic rotary actuators suitable for 90° actuation with a torque of 4 kgm



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