

P64F - Olympian Plus plug-in system Soft start/dump valves

- > Port size: 1/4" ... 3/4" (ISO G/PTF)
- > Assists machine designers in complying with the European **Machineries Directive**
- > Controlled increase of downstream pressure on start up
- > Solenoid, air pilot or manual operator
- > High forward flow and capacity dump facility



Technical features

Medium:

Compressed air only

Operating pressure:

3 bar (43 psi) minimum 10 bar (145 psi) (Solenoid operated)

17 bar (246 psi) (Pilot operated)

Snap pressure:

Full flow when downstream pressure reaches 50 ... 80% of inlet pressure

Charge time:

For 2 litre downstream volume and 6,3 bar (90 psi) inlet pressure 0,2 sec. minimum

75 sec. maximum

Flow:

57 dm³/s

Operating pressure: 6,3 bar (91 psi) Δp: 0,5 bar (7 psi)

Port sizes:

1/4", 3/8", 1/2" or 3/4"

Air pilot port:

1/4 PTF with PTF main ports Rc1/4 with ISO G main ports

Exhaust port:

1/2 PTF with PTF main ports G1/2 with ISO G main ports

Gauge port:

1/8 PTF with PTF main ports

Rc1/8 with ISO G main ports

Standard compliances:

II 2G Ex h IIC T6 Gb II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

Solenoid actuated:

-20° ... +50°C (-4° ... +122°F)

Pilot actuated:

-20° ... +80°C (-4° ... +176°F)

Version with gauge:

-20° ... +65°C (-4° ... +149°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body & yoke: Zinc alloy Intermediate body: Aluminium Top plate: Zinc

Elastomers: NBR

Electrical details for solenoid operators

Voltage tolerance	± 10%
Rating	100% continuous duty
Inlet orifice	1,0 mm
Electrical connection	Industrial Standard, 22 mm
Solenoid coil mounting	Four positions x 90°
Protection class	IP 65 (with sealed plug)

Technical data - standard models

Symbol	Port size	Size	Actuation/ return	Voltage	Pilot port	Weight (kg)	Тур
	G1/4	_	Solenoid/spring	24 V d.c.	_	2,07	P64F-2GC-PFN *1)
2	G3/8	_	Solenoid/spring	24 V d.c.	_	2,05	P64F-3GC-PFN *1)
WITH	G1/2	Basic	Solenoid/spring	24 V d.c.	_	2,02	P64F-4GC-PFN *1)
+-	G3/4	_	Solenoid/spring	24 V d.c.	_	2,38	P64F-6GC-PFN *1)
	Without yoke		Solenoid/spring	24 V d.c.	_	1,59	P64F-NNC-PFN *1)
	G1/4	-	Air/spring	_	Rc1/4	1,69	P64F-2GA-NNN
2	G3/8	_	Air/spring	_	Rc1/4	1,94	P64F-3GA-NNN
W ₁	G1/2	Basic	Air/spring	_	Rc1/4	1,91	P64F-4GA-NNN
	G3/4	_	Air/spring	_	Rc1/4	2,27	P64F-6GA-NNN
	Without yoke		Air/spring	_	Rc1/4	1,45	P64F-NNA-NNN

^{*1)} To select other solenoid type and coil voltage refer to option selector on page 2





Voltage codes and spare coils

22 mm coil for connector interface acc. to industrial standard

22 million for connector interrace acc. to maostrial stand						
	Voltage	Power Inrush/Hold				
-	12 V d.c.	2 W				
	24 V d.c	2 W				
ONE STA	110/120 V 50/60 Hz	4/2,5 VA				
1507/ED 2813-ET 1007/ED 2813-ET 1007/ED 2813-ET	220/240 V 50/60 Hz	6/5,0 VA				

Connector plugs



Option selector

P64F-★★★-★★

Code

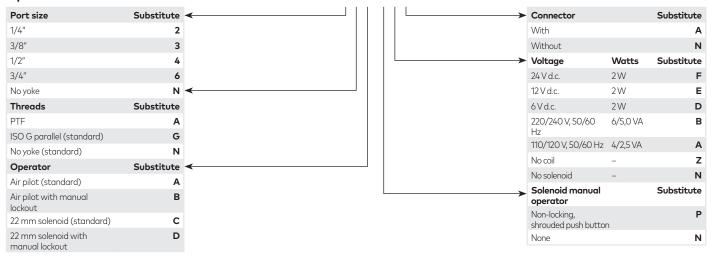
12J

13J

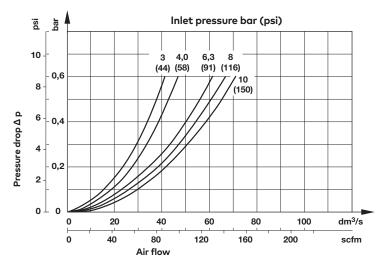
QM/48/12J/21

QM/48/13J/21

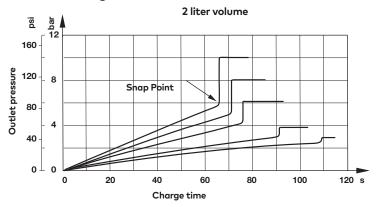
QM/48/18J/21 18J QM/48/19J/21 19J



Flow characteristics



Maximum charge time

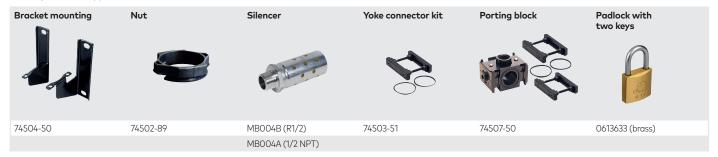




Accessories

	Models with G-thread Single yoke	Double yoke	3/2 Shut-off valve Threaded inlet only	Threaded outlet only	End connector kit	Rear entry bracket kit
Thread	PEUS	e e				
G1/4	Y64A-2GA-N1N	Y64A-2GA-N2N	T64T-2GB-P1N	T64T-2GC-P1N	_	_
G3/8	Y64A-3GA-N1N	Y64A-3GA-N2N	T64T-3GB-P1N	T64T-3GC-P1N	_	_
G1/2	Y64A-4GA-N1N	Y64A-4GA-N2N	T64T-4GB-P1N	T64T-4GC-P1N	74505-50	_
G3/4	Y64A-6GA-N1N*	Y64A-6GA-N2N*	T64T-6GB-P1N	T64T-6GC-P1N	74505-53	18-026-981
1/4 PTF	Y64A-2AA-N1N	Y64A-2AA-N2N	T64T-2AB-P1N	T64T-2AC-P1N	_	_
3/8 PTF	Y64A-3AA-N1N	Y64A-3AA-N2N	T64T-3AB-P1N	T64T-3AC-P1N	_	_
1/2 PTF	Y64A-4AA-N1N	Y64A-4AA-N2N	T64T-4AB-P1N	T64T-4AC-P1N	74505-52	_
3/4 PTF	Y64A-6AA-N1N*	Y64A-6AA-N2N*	T64T-6AB-P1N	T64T-6AC-P1N	74505-55	_

^{*}These yokes are supplied with two end connenctor kits as standard.



Gauges

Center back connection, white face (full technical specification see datasheet 8.900.900)



Pressu bar *1	re range MPa	psi	Ø	Thread size	Model	
0 10	0 1	0 145	50 mm	R1/8	18-015-013	
0 25	0 2,5	0 362	50 mm	R1/8	18-015-014	

^{*1)} primary scale

Center back connection, black face for North America (full technical specification see datasheet		
8.900.900)		
Pressure range psig *1 bar MPa	Ø	Т



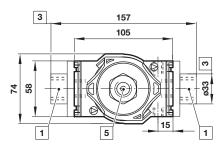
0 160	0 11	0 1.1	2" (50 mm)	1/8 NPT	18-015-204
0400	0 28	0 2.8	2" (50 mm)	1/8 NPT	18-015-206

^{*1)} primary scale



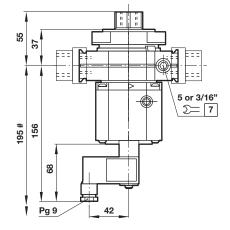
Dimensions Pilot actuated Standard

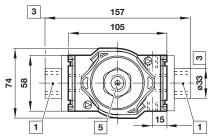
22 5 or 3/16" 143# ∑= 7



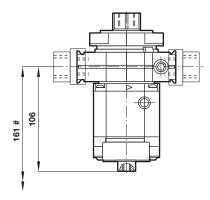
2

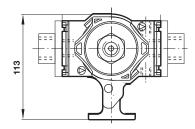
Solenoid actuated **Standard**



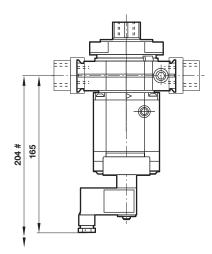


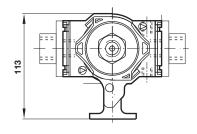
With manual lockout





With manual lockout





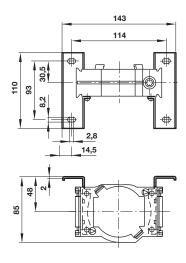
- # Minimum clearance required to remove unit from yoke
 1 Main ports 1/4", 3/8", 1/2" or 3/4"
- Pilot port Rc1/4
- 3 For main ports 3/4" only
- **5** Exhaust port 1/2"
- Gauge port 1/8"

Dimensions in mm Projection/First angle

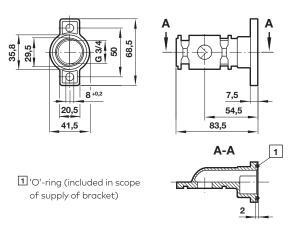




Single yoke with bracket mounting

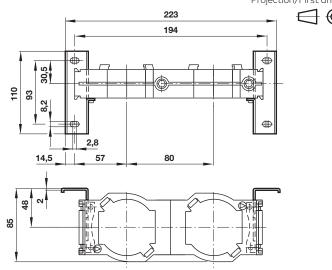


Rear entry bracket 18-026-981

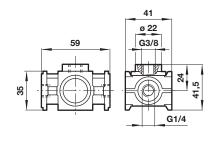


Double yoke with bracket mounting

Dimensions in mm Projection/First angle



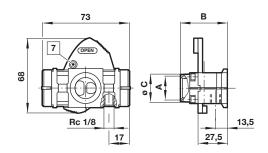
Porting block 74507-50



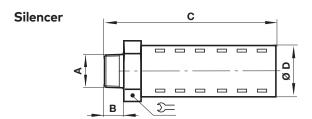
3/2 Shut-off valve

Symbol	Α	В	øС	Model
	G1/4	48	27	T64T-2G*-P1N
	G3/8	48	27	T64T-3G*-P1N
	G1/2	48	27	T64T-4G*-P1N
1 3	G3/4	51	33	T64T-6G*-P1N

^{*} B = Threaded inlet only, C = Threaded outlet only







Α	В	С	D	D=	Model
R1/2	17	92	32	32	MB004B
1/2 NPT	17	92	32	32	MB004A

Dimensions in mm Projection/First angle



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.