

# 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
- Solenoid, air pilot or manual operator
- High forward flow and capacity dump facility
- Controlled increase of downstream pressure on start up

# 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 dm<sup>3</sup>/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 pilde 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 compliance

(only valid for Air pilot/operator version):

(Ex) || 2G Ex h ||C T6 Gb || 2D Ex h ||C 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)
	G1/2	Basic	Solenoid/spring	24 V d.c.	_	2,02	P64F-4GC-PFN *1)
•' 1 3	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
	G3/8	_	Air/spring	_	Rc1/4	1,94	P64F-3GA-NNN
	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

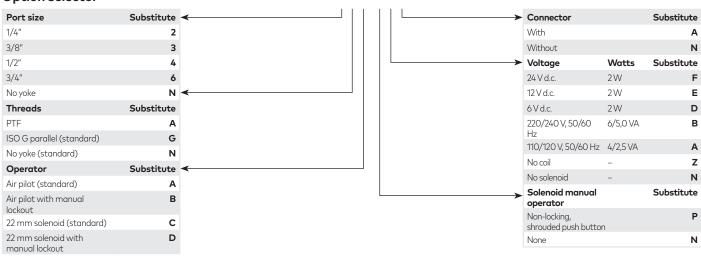
22 mm coil for connector interface acc. to industrial standard							
	Voltage	Power Inrush/Hold	Model	Code			
	12 V d.c.	2 W	QM/48/12J/21	12J			
	24 V d.c	2 W	QM/48/13J/21	13J			
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J			
	220/240 V 50/60 Hz	6/5,0 VA	QM/48/19J/21	19J			

#### Connector plugs

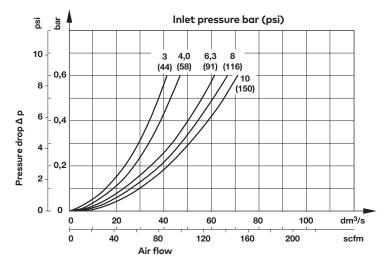


#### **Option selector**

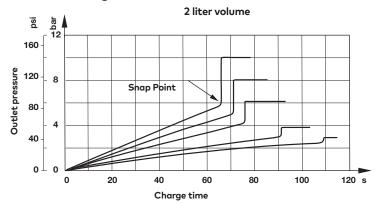
P64F-\*\*\*\*



#### Flow characteristics



#### Maximum charge time





#### Accessories

Models with - thread  Double yoke  P/2 (Shube-off walve Single yoke)  Threaded outle only  End one-tor mice bit  End one-tor mice bit  End one-tor mice bit  End one-tor mice bit  Recent the threaded init only <i>with and the thread of thread of the thread of </i>												
G1/4  Y64A-2GA-NIN  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  -  -    G3/8  Y64A-3GA-NIN  Y64A-3GA-N2N  T64T-3GB-PIN  T64T-3GC-PIN  74505-50  -    G1/2  Y64A-4GA-N1N  Y64A-4GA-N2N  T64T-4GB-PIN  T64T-4GC-PIN  74505-50  -  -    G1/2  Y64A-4GA-N1N  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  74505-50  -  -    J1/4 PTF  Y64A-2GA-N1N  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  -  -  -    J2/8 PT  Y64A-3AA-N1N  Y64A-3AA-N2N  T64T-2AB-PIN  T64T-4AC-PIN  -  -  -  -    J2/9 PT  Y64A-4AA-N1N  Y64A-3AA-N2N  T64T-4AB-PIN  T64T-4AC-PIN  74505-50  - <th></th> <th></th> <th>-thread</th> <th>Double yoke</th> <th></th> <th></th> <th></th> <th>Threaded out</th> <th>let only</th> <th></th> <th></th> <th></th>			-thread	Double yoke				Threaded out	let only			
G1/4  Y64A-2GA-NIN  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  -  -    G3/8  Y64A-3GA-NIN  Y64A-3GA-N2N  T64T-3GB-PIN  T64T-3GC-PIN  74505-50  -    G1/2  Y64A-4GA-N1N  Y64A-4GA-N2N  T64T-4GB-PIN  T64T-4GC-PIN  74505-50  -  -    G1/2  Y64A-4GA-N1N  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  74505-50  -  -    J1/4 PTF  Y64A-2GA-N1N  Y64A-2GA-N2N  T64T-2GB-PIN  T64T-2GC-PIN  -  -  -    J2/8 PT  Y64A-3AA-N1N  Y64A-3AA-N2N  T64T-2AB-PIN  T64T-4AC-PIN  -  -  -  -    J2/9 PT  Y64A-4AA-N1N  Y64A-3AA-N2N  T64T-4AB-PIN  T64T-4AC-PIN  74505-50  - <td></td> <td>PLUE</td> <td>0</td> <td>PITIË</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>		PLUE	0	PITIË	0						•	
G3/8  Y64A-3GA-NIN  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  74505-50  -  -    G3/4  Y64A-6GA-N1N*  Y64A-6GA-N2N*  T64T-6GB-P1N  T64T-6GC-P1N  -  -  -    J/4 PTF  Y64A-2AA-N1N  Y64A-3AA-N2N  T64T-6AB-P1N  T64T-6GC-P1N  -  -  -    J/2 PTF  Y64A-6AA-N1N  Y64A-6AA-N2N  T64T-6AB-P1N  T64T-6AC-P1N  74505-52  -  -    J/4 PTF  Y64A-6AA-N1N*  Y64A-6AA-N2N*  T64T-6AB-P1N  T64T-6AC-P1N  74505-55  -  -    These volkes  were upplied  were upplied  were upplied  Were upplied  Y64A-6AA-N2N  T64T-6AB-P1N  T64T-6AC-P1N  74505-55  -  -    These volkes  were upplied  Medo-Ma (Ze VPT)  Year Kachen Varthenee Vart												
G1/2  Y64A+GA-NIN  Y64A+GA-NIN <	G1/4	Y64A-2GA-N1N		Y64A-2GA-N2N	1	64T-2GB-P1N		T64T-2GC-P1N		-	-	
G3/4  Y64A-6GA-N1N*  Y64A-6GA-N2N*  T64T-6GP-PIN  T64T-6GP-PIN  74505-53  18-026-981    1/4 PTF  Y64A-2AA-N1N  Y64A-2AA-N2N  T64T-2AB-PIN  T64T-3AC-PIN  -  -    3/8 PTF  Y6AA-3AA-N1N  Y6AA-3AA-N2N  T64T-3AB-PIN  T64T-3AC-PIN  -  -    3/8 PTF  Y6AA-3AA-N1N  Y6AA-3AA-N2N  T64T-3AB-PIN  T64T-3AC-PIN  -  -    3/8 PTF  Y6AA-3AA-N1N  Y6AA-3AA-N2N  T64T-3AB-PIN  T64T-4AC-PIN  -  -    3/8 PTF  Y6AA-3AA-N1N  Y6AA-3AA-N2N  T64T-3AB-PIN  T64T-4C-PIN  74505-55  -    3/8 PTF  Y6AA-3AA-N1N  Y6AA-4AA-N2N  T64T-4GB-PIN  T64T-4C-PIN  74505-55  -    **  Yee connector kit  off-tad-PIN  T64T-4GP-PIN  T64T-4GP-PIN  74505-55  -    **  **  Silencer  Silencer  Yoke connector kit  Porting block  Porting blo	G3/8	Y64A-3GA-N1N		Y64A-3GA-N2N	٦	64T-3GB-P1N		T64T-3GC-P1N		-	-	
1/4 PTF  Y64A-2AA-NIN  Y64A-2AA-NIX  T64T-2AB-PIN  T64T-2AC-PIN  -  -    3/8 PTF  Y64A-3AA-NIN  Y64A-3AA-NIX  T64T-3AB-PIN  T64T-3AC-PIN  -  -    3/8 PTF  Y64A-3AA-NIN  Y64A-3AA-NIX  T64T-AB-PIN  T64T-AC-PIN  74505-52  -    3/8 PTF  Y6A-AAA-NIX  Y6A-AAA-NIX  Y64A-6AA-NIX  T64T-AB-PIN  T64T-AC-PIN  74505-55  -    3/8 PTF  Y6A-6AA-NIX  Y6A-6AA-NIX  Y64A-6AA-NIX  T64T-AB-PIN  T64T-AC-PIN  74505-55  -    *T  result  two standardiant  Y64A-6AA-NIX  Y64A-6AA-NIX  T64T-AB-PIN  T64T-AC-PIN  74507-50  0  -    *T  result  two standardiant  Y64A-6AA-NIX  Yee	G1/2	Y64A-4GA-N1N		Y64A-4GA-N2N	1	64T-4GB-P1N		T64T-4GC-P1N		74505-50	_	
3/8 PTF  Y64A-3AA-NIN  Y64A-3AA-NIN  Y64A-3AA-NIN  -  -  -    1/2 PTF  Y64A-4AA-NIN  Y64A-4AA-NIN  Y64A-4AA-NIN  Y64A-6AA-NIN	G3/4	Y64A-6GA-N1N*		Y64A-6GA-N2N*	٦	64T-6GB-P1N		T64T-6GC-P1N		74505-53	18-026-981	
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 yorks  These yorks  Totart-6AB-P1N  T64T-6AB-P1N  T64T-6AC-P1N  74505-55  -    **These yorks  Totart-6AB-P1N  T64T-6AB-P1N  T64T-6AB-P1N  T64T-6AC-P1N  74505-55  -    **These yorks  Nut  Silencer  Yorke connector kit  Porting block  Padlock with two keys    **Totart  Mago  MB004B (R1/2)  7450-50  Of13603 (bross)    74504-50  74502-89  MB004B (R1/2)  74503-51  74507-50  Of13603 (bross)    MB004A (1/2 NPT)  MB004B (R1/2)  74503-51  74507-50  Of13603 (bross)    Connection, white face (full technical specifications, white face (full technical specifications)  Signo(syoc))  Signo(syoc))<	1/4 PTF	Y64A-2AA-N1N		Y64A-2AA-N2N	٦	64T-2AB-P1N		T64T-2AC-P1N		_	_	
3/4 PTF  Y64A-6AA-NIN*  Y64A-6AA-NIX*  T64T-6AB-PIN  T64T-6AC-PIN  7450-55  –    *These yokes are supplied with two end connector kits as standard.  Bracket mounting  Nut  Silencer  Yoke connector kit  Porting block  Padlock with two keys    Image: Standard Standa	3/8 PTF	Y64A-3AA-N1N		Y64A-3AA-N2N	٦	64T-3AB-P1N		T64T-3AC-P1N		_	_	
These yokes are supplied with two end connector kits as standard.  Nut  Silencer  Yoke connector kit  Porting block  Padlock with two keys    Image: Standard of the stand	1/2 PTF	Y64A-4AA-N1N		Y64A-4AA-N2N	1	64T-4AB-P1N		T64T-4AC-P1N		74505-52	_	
Bracket mounting  Nut  Silencer  Yoke connector kit  Porting block  Pedlock with two keys    Image: Silencer	3/4 PTF	Y64A-6AA-N1N*		Y64A-6AA-N2N*	٦	64T-6AB-P1N		T64T-6AC-P1N		74505-55	-	
Image: Solution of the state of the sta	*These yok	es are supplied v	vith two en	ld connenctor kit	s as standard.							
MB004A (1/2 NPT)    Gauges    Center back connection, white face (full technical specification see datasheet 8.900.900)  Center back connection, black face for North America (full technical specification see datasheet 8.900.900)    6  Pressure range psig *1 bar MPa Ø Thread size Model	Bracket m		Nut		Silencer	Yok	ke connect	or kit	Porting block			
Gauges    Center back connection, white face (full technical specification see datasheet 8.900.900)  Center back connection, black face for North America (full technical specification see datasheet 8.900.900)    6  6    Pressure range bar *1 MPa  Ø    MPa  Ø    Thread size  Model	74504-50		74502-89		MB004B (R1/2)	745	603-51		74507-50		0613633 (brass)	
Center back connection, white face (full technical specification see datasheet 8.900.900)  Center back connection, black face for North America (full technical specification see datasheet 8.900.900)    6  Pressure range par *1 MPa  Ø    Thread size  Model					MB004A (1/2 NF	PT)						
connection, white face (full technical specification see datasheet 8.900.900)  connection, black face for North America (full technical specification see datasheet 8.900.900)  connection, black face for North America (full technical specification see datasheet 8.900.900)    6  Pressure range psig *1 bar MPa Ø Thread size Model	Gauges											
bar *1 MPa psi Ø Thread size Model psig *1 bar MPa Ø Thread size Model	-											
010 0145 50 mm R1/8 18-015-013 0160 011 01.1 2" (50 mm) 1/8 NPT 18-015-204	Center ba connectio (full techr specificat see datas 8.900.900	ick n, white face nical cion iheet				connection, ble for North Ame technical speci see datasheet 8.900.900)	erica (full ification					
	Center ba connectio (full techr specificat see datas 8.900.900 6 Pressure r	ick in, white face nical cion wheet D) range	ø	Thread size	Model	connection, bld for North Ame technical speci see datasheet 8.900.900) 6 Pressure range	erica (full ification : e	Ø	Thread size	Model		

0 ... 400 0 ... 28 0 ... 2.8 2" (50 mm) 1/8 NPT

\*1) primary scale

18-015-206

\*1) primary scale

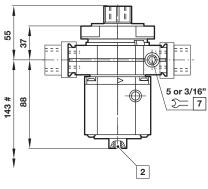
0 ... 25 0 ... 2,5 0 ... 362 50 mm

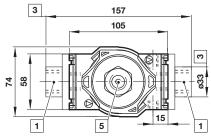
R1/8

18-015-014



#### Dimensions Pilot actuated Standard

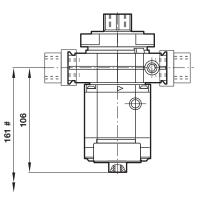


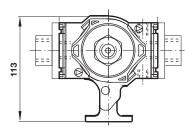


Solenoid actuated

Standard

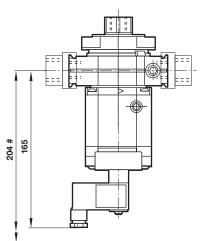
### With manual lockout

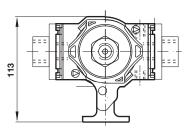




With manual lockout

55 37 5 or 3/16"  $\Sigma = 7$ 195 # 156 88 Pg 9 42 I 3 157 105 ო ø33 74 58 • 15 5 1 1





# Minimum clearance required to remove unit from

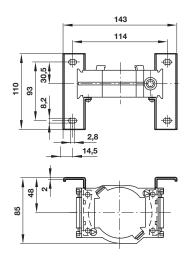
yoke 1 Main ports 1/4", 3/8", 1/2" or 3/4" 2 Pilot port Rc1/4 3 For main ports 3/4" only 5 Exhaust port 1/2" 7 Gauge port 1/8"



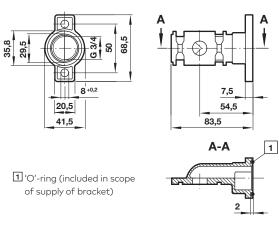




## Single yoke with bracket mounting



Rear entry bracket 18-026-981



# 3/2 Shut-off valve

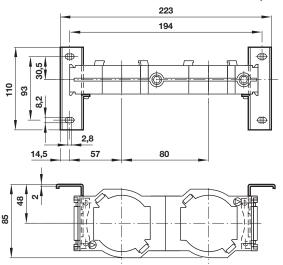
Symbol	А	В	øC	Model
0	G1/4	48	27	T64T-2G*-P1N
	G3/8	48	27	T64T-3G*-P1N
ELTY	G1/2	48	27	T64T-4G*-P1N
1.5	G3/4	51	33	T64T-6G*-P1N
* 5				

\* B = Threaded inlet only, C = Threaded outlet only

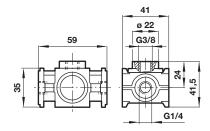
### Double yoke with bracket mounting

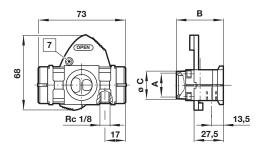
Dimensions in mm Projection/First angle

 $\ominus$ 

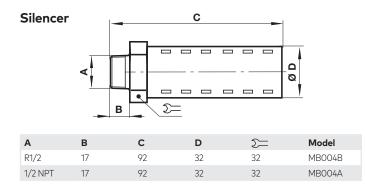


Porting block 74507-50









#### 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.

Dimensions in mm Projection/First angle

