# V64H - Olympian Plus plug-in system
# Pressure relief valves




- Port size: 1/4" ... 3/4" (ISO G/PTF)
- Olympian relief valves protect compressed air systems from over-pressurisation
- High relief capacity, sensitive and accurate
- Threaded relief port for silencer or piped exhaust
- Norgren pressure relief valves comply with category O(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC

## Technical features

**Medium:**
Compressed air only

**Operating pressure:**
17 bar (246 psi) maximum

**Outlet pressure adjustment range:**
(standard)
1 ... 10 bar (14 ... 145 psi)
(optional)
0,4 ... 4 bar (5 ... 58 psi),
2 ... 16 bar (29 ... 232 psi)

**Port sizes:**
1/4", 3/8", 1/2" or 3/4"

**Gauge port:**
1/8 PTF with PTF main ports
Rc1/8 with ISO G main ports

**Relief port:**
1/2 PTF with PTF main ports
G1/2 with ISO G main ports

**Standard compliances:**
II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T85° Db

**Ambient/Media temperature:**
-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, bonnet & yoke: Zinc alloy
Connection piece: Aluminium
Bottom plug: Aluminium
Adjusting screw: Steel
Elastomers: NBR

Technical data, standard models

| Symbol | Port size | Size | Outlet pressure adjustment range (bar) | Weight (kg) | Model |
|---|---|---|---|---|---|
|  | G1/4 | – | 1...10 | 1,68 | V64H-2GD-RMN |
| | G3/8 | – | 1...10 | 1,66 | V64H-3GD-RMN |
| | G1/2 | Basic | 1...10 | 1,63 | V64H-4GD-RMN |
| | G3/4 | – | 1...10 | 1,99 | V64H-6GD-RMN |
| | Without yoke | | 1...10 | 1,20 | V64H-NND-RMN |

## Option selector

**V64H-★★D-R★★**

| Port size | Substitute |
|---|---|
| 1/4" | 2 |
| 3/8" | 3 |
| 1/2" | 4 |
| 3/4" | 6 |
| Without yoke | N |

| Thread | Substitute |
|---|---|
| PTF | A |
| ISO G (standard) | G |
| Without yoke (standard) | N |

| Gauge | Substitute |
|---|---|
| With | G |
| Without (standard) | N |

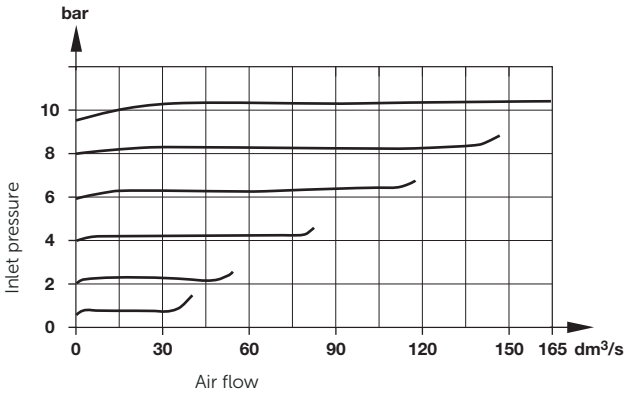
| Spring (Outlet Pressure Range) *1) | Substitute |
|---|---|
| 1 ...10 bar (standard) | M |
| 0,3 ... 4 bar | F |
| 2 ... 16 bar | S |

*1) Relief valves can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

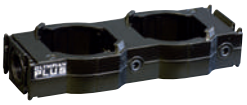

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## Relief characteristics

Spring version: 10 bar, port size: 1/2”




## Accessories

| Thread | 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 |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| 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.

| Bracket mounting | Nut | Tamper resistant kit | Yoke connector kit | Porting block | Padlock with two keys |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 74504-50 | 74502-89 | 1581-90 | 74503-51 | 74507-50 | 0613633 (brass) |

## Service kit

| Service kit |
|---|
|  |
| V64H-KIT |


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## Gauges

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

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| Pressure range bar *1 | MPa | psi | Ø | Thread size | Model |
|---|---|---|---|---|---|
| 0 ... 4 | 0 ... 0,4 | 0 ... 58 | 50 mm | R1/8 | 18-015-011 |
| 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)

6

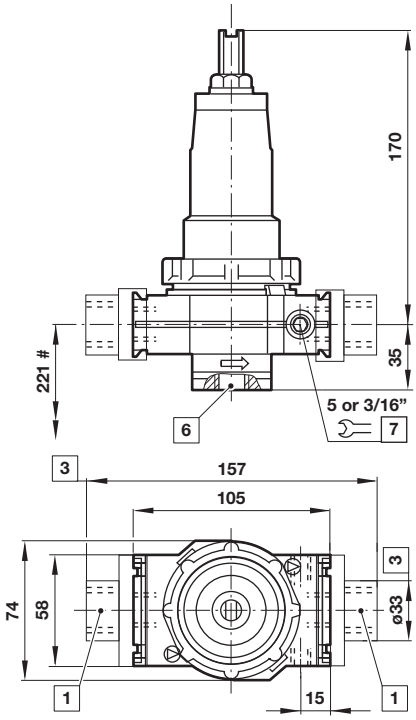


| Pressure range psig *1 | bar | MPa | Ø | Thread size | Model |
|---|---|---|---|---|---|
| 0 ... 60 | 0 ... 4 | 0 ... 0.4 | 2" (50 mm) | 1/8 NPT | 18-015-202 |
| 0 ... 160 | 0 ... 11 | 0 ... 1.1 | 2" (50 mm) | 1/8 NPT | 18-015-204 |
| 0 ... 400 | 0 ... 28 | 0 ... 2.8 | 2" (50 mm) | 1/8 NPT | 18-015-206 |

*1) primary scale

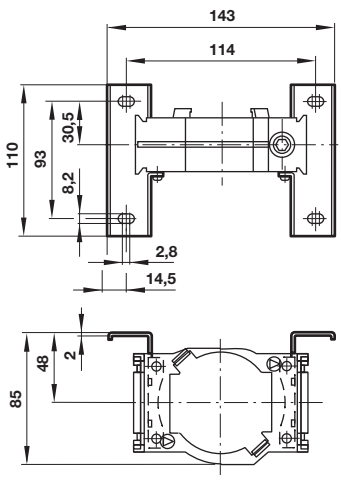
## Basic dimensions

Dimensions in mm
Projection/First angle

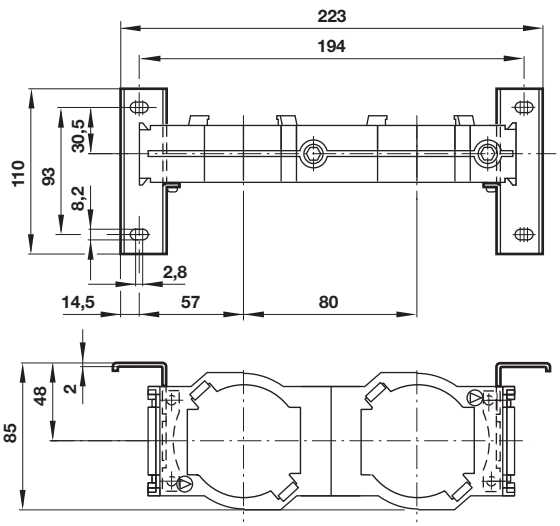



# Minimum clearance required to remove unit from yoke
1 Main ports 1/4", 3/8", 1/2" or 3/4"
3 For main ports 3/4" only
6 Relief port 1/2"
7 Gauge port 1/8"

## Single yoke with bracket mounting



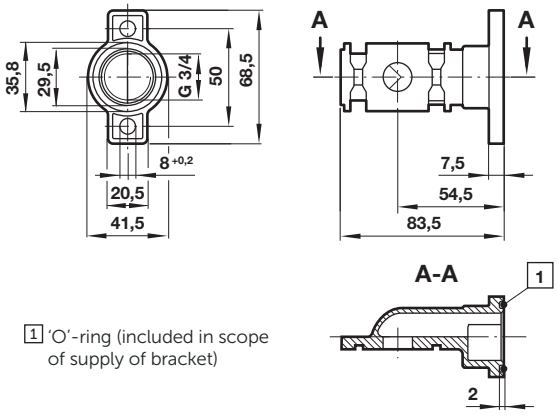

## Double yoke with bracket mounting





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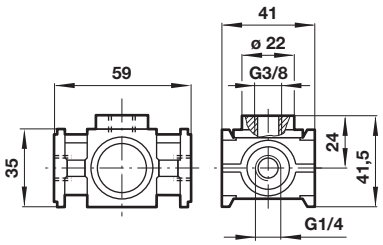
## Rear entry bracket
## 18-026-981



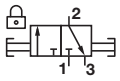

1 'O'-ring (included in scope of supply of bracket)

## Porting block
## 74507-50

Dimensions in mm
Projection/First angle

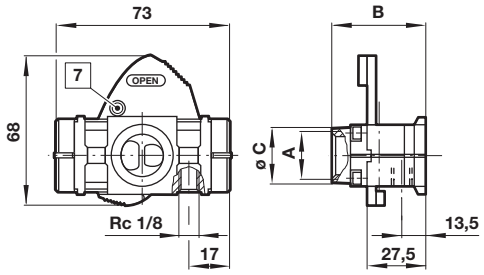



## 3/2 Shut-off valve

| Symbol | A | B | ø C | Model |
|---|---|---|---|---|
|  | G1/4 | 48 | 27 | T64T-2G*-P1N |
| | G3/8 | 48 | 27 | T64T-3G*-P1N |
| | G1/2 | 48 | 27 | T64T-4G*-P1N |
| | G3/4 | 51 | 33 | T64T-6G*-P1N |



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




7 Padlock hole 7,5 mm

## 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 Norgren Ltd.

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.



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