

Control modules

RE 51156/09.06
Replaces: 01 .05

1/86

Type IH15B

Component series 1X
Maximum operating pressure 350 bar
Maximum flow 30 l/min

H/A/D 7228

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Information on available spare parts:
www.boschrexroth.com/spc

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Overview of contents

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Features

Features

- Compact design
- No pipe work within the control
- Few interfaces
- Variable combination possibilities
- Can be individually combined
- Can be directionly mounted on the reservoir cover by means of the externally mounted version
- Ready to connect

Description, general

The IH15B control modules are used to create complete hydraulic controls. They can be individually designed and assembled. The directional valve and poppet valve modules can be freely combined.

The control modules, together with the reservoir connection module, can be directly mounted onto the oil reservoir cover. With the aid of the module for external mounting it is

possible to fit the control module into any system. The reducing module makes it possible to mount the IH15B modules onto IH15A - and IH20B modules.

The modules are used preferably for hydraulic controls that have low volume actuators. They are designed for a maximum flow of 30 l/min. They are joined by means of three tie rods.

Technical data (for applications outside these applications, please consult us!)**Hydraulic**

Installation	Optional ¹⁾		
Pressure fluid	Mineral oil (HL, HLP) to DIN 51524 part 2 ²⁾ Fast bio-degradable pressure fluids to VDMA 24568 (see RE 90221); HETG (rape seed oil) ²⁾ ; HEPG (polyglycols); HEES (synthetic ester) ³⁾ ; other pressure fluids on request		
Pressure fluid temperature range	°C	-30 to +80 (with NBR seals) -20 to +80 (with FKM seals) (the permissible viscosity range of the valves has to be taken into account!)	
Ambient temperature range	°C	-30 to +50	
Viscosity range	mm ² /s	2.8 to 500 ¹⁾	
Max. permissible degree of contamination of the hydraulic fluid - cleanliness class to ISO 4406 (c)	Class 20/18/15 ¹⁾		
Valve pressure stage	See the associated RE sheet		
Maximum flow of the directional poppet valves Type: KSER1 ...	q_v	l/min	20 (2/2-way poppet valve) 12 (3/2-way poppet valve)

Electrical

Voltage type	DC			
Available voltages ⁴⁾	U	V	24	
Voltage tolerance (nominal voltages)			±10	
Power consumption	P	W	19 or 30 ¹⁾	
Switching time to ISO 6403	On	T	ms	25 to ≤ 80
	Off	T	ms	10 to 25
Switching frequency	cycles/hr.		Up to 15.000	
Protection to EN 60529 ⁵⁾ (VDE 0470-1) DIN 40050-9	IP 65			
Coil temperature ⁶⁾	°C		150	

¹⁾ Take the valve details into account²⁾ Suitable for NBR **and** FKM seals³⁾ **Only** suitable for FKM seals⁴⁾ Special voltages on request⁵⁾ With assembled and locked plug-in connector⁶⁾ Due to the occurring surface temperature of the solenoid coils, the European Standards EN563 and EN982 are to be taken into account!

Module overview



HAD 7229

Basic module „G“

Basic module „G“

- Basic module with integrated pressure relief valve for pressure adjustment
- Basic module with two valve stations and integrated pressure relief valve
- When using the basic module „G“ it is not possible to fit further valve assemblies.
- For further details see page 8

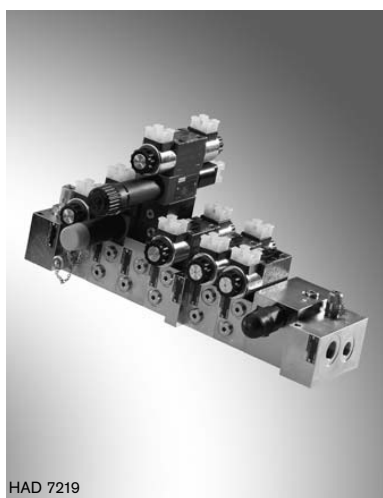


HAD 7223

Directional/poppet module „W“, „S“

Directional/poppet valve modules „W“, „S“

- Directional valve modules
 - Make it possible to design controls using valves with a porting pattern to DIN 24340 form A
- Poppet valve modules basically comprise of:
 - A pressure relief module
 - One or more control modules
 - An end module
- The controls are designed to suit the application case
- For further details see page 13



HAD 7219

Module for external mounting

Module for external mounting

- Makes it possible to mount the directional/poppet modules in any hydraulic system or machine
- For further details see page 56

Module overview



HAD 7226

Module for the UPE5 drive module

Module for the UPE5 drive module

- Makes it possible to mount the module onto the UPE5 drive module (catalogue RE 51145)
- For further details see page 71

Short code	Basic module, type: „G“	Page
BA	Reservoir connection module	9
BAP	Reservoir connection module with an external P connection to the front	9
BAY	Reservoir connection module with Y port	10
GDB	Pressure relief module	11
G2AABTDB	Modules AA - B - T with pressure relief valve and two valve stations	12

Short code	Directional/poppet valve modules, types: „W“, „S“	Page
BA	Reservoir connection module	14
BAP	Reservoir connection module with an external P connection to the front	14
BAY	Reservoir connection module with Y port	15
DF30	Pressure filter module (P - line $p_{max} = 250$ bar)	18
DF50	Pressure filter module (P - line $p_{max} = 250$ bar)	19
DF30Y	Pressure filter module with Y port (P - line $p_{max} = 250$ bar)	18
DF50Y	Pressure filter module with Y port (P - line $p_{max} = 250$ bar)	19
DFS30	Pressure filter module, filter bowl vertical (P - line $p_{max} = 250$ bar)	20
DFS50	Pressure filter module, filter bowl vertical (P - line $p_{max} = 250$ bar)	20
F30DB	Filter module with pressure relief valve (T - line $p_{max} = 7$ bar)	21
F30DBU	Filter module with pressure relief valve and circulation valve (T - line $p_{max} = 7$ bar)	23
F60DB	Filter module with pressure relief valve (T - line $p_{max} = 7$ bar)	21
F60DBU	Filter module with pressure relief valve and circulation valve (T - line $p_{max} = 7$ bar)	23
SDA	Pressure cut-off module	27
SDB	Pressure relief module	25
SDBU	Pressure relief module with circulation valve	26
SEDBSA	End module with pressure relief valve, accumulator and isolator valve	52
SEDBSAP1	End module with pressure relief valve, accumulator and isolator valve with P1 port	52
SP	Control module P	43
SPA3	Control module SPA3	45
SPA3P1	Control module SPA3 with P1 port	45
SPP1	Control module P with P1 port	43
SR	Control module with check valve	47
SRP1	Control module with check valve, with P1 port	47

Module overview

Short code	Directional/poppet module, types: „W“, „S“	Page
SU	Circulation module	42
SUP1	Circulation module with P1 port	42
SSB	Accumulator safety module	54
SSBP1	Accumulator safety module with P1 port	54

Short code	Directional/poppet module, types: „W“, „S“	Page
WDB	Pressure relief module with one valve station	16
WDR	Pressure reducing module	28
WDRP1	Pressure reducing module with P1 port	28
WZDR-A	Segment module with Pressure reducing valve in port A	30
WZDR-A/A	Segment module with Pressure reducing valve in port A and drain cock	30
WZDR-AB	Segment module with Pressure reducing valve in port AB	30
WZDR-AB/A	Segment module with Pressure reducing valve in port AB and drain cock	30
WZDR-P	Segment module with Pressure reducing valve in P port	31
WSE	Directional/poppet valve module	51
WSEP1	Directional/poppet valve module with P1 port	51
WSK	Directional valve/poppet valve cooler module	17
WSKY	Directional valve/poppet valve cooler module with Y port	17
WZ	Segment module	(for directional valve NS6) 32
WZ3	Segment module, 3 valve stations	(for directional valve NS6) 34
WZ4	Segment module, 4 valve stations	(for directional valve NS6) 34
WZ-008	Segment module in Sonderausführung -008	(for directional valve NS6) 36
WZ4-008	Segment module with 4 valve stations in special design -008	(for directional valve NS6) 36
WZE	Segment module with cartridge valves	(for directional valve NS6) 39
WZEP1	Segment module with cartridge valves with P1 port	(for directional valve NS6) 40
WZP1	Segment module with P1 port	(for directional valve NS6) 32
WZ2AABB	Segment module, 2 valve stations, AA and BB ports are connected	(for directional valve NS6) 38
WZ2AP	Segment module, 2 valve stations, AP ports are connected	(for directional valve NS6) 38
ZSSB	Segment module with accumulator safety block	49
ZSSBP1	Segment module with accumulator safety block with P1 port	49

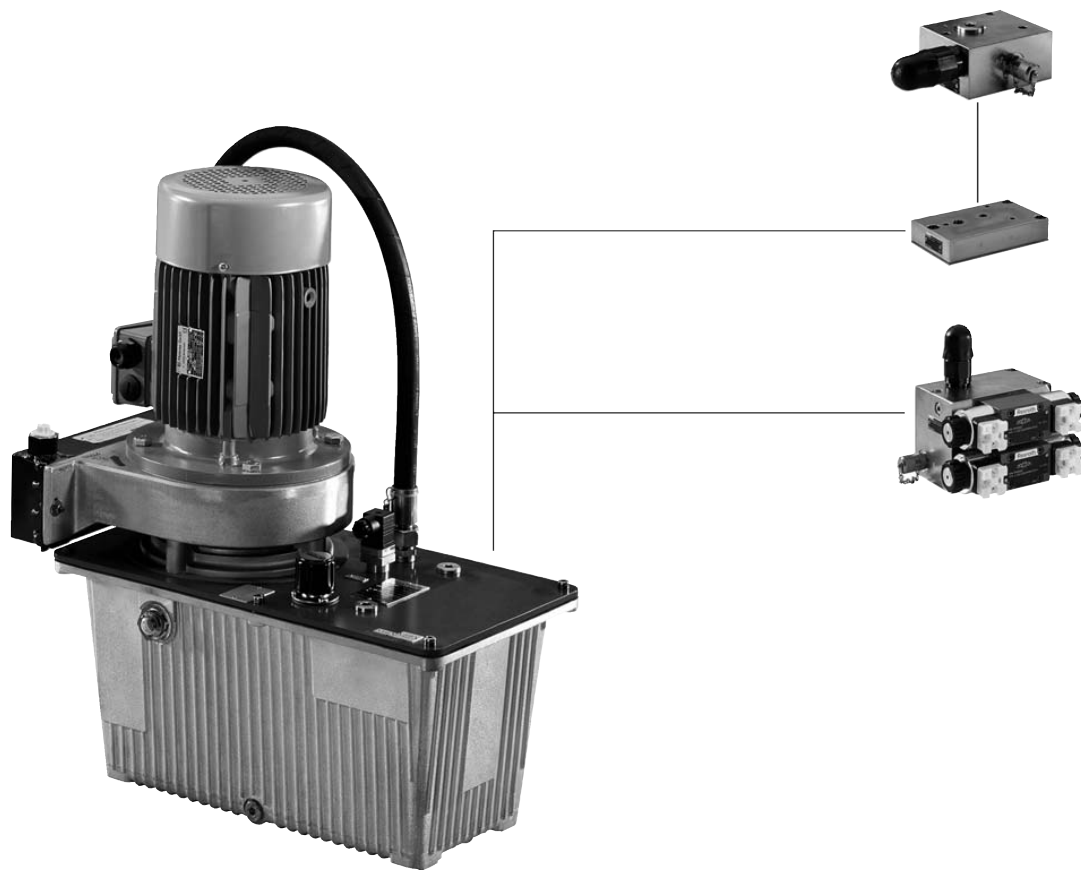
Short code	Module for external mounting	Page
A	Connection module	58
AD	Connection module with through holes	59
ADB	Connection module with pressure relief valve	60
AY	Connection module with Y port	58
E	End module	65
EAF6	End module with pressure gauge-Isolator valve	66
EP1	End module with P1 port	65
Z	Segment module	61
ZG	Segment module with threads for fixing studs	63
ZGP1	Segment module with threads for fixing studs and P1 port	63
ZGPT	Segment module with PT interruption and threads for fixing studs	64
ZGPTP1	Segment module with PTP1 interruption and threads for fixing studs	64
ZPT	Segment module with PT interruption	62
ZP1	Segment module with P1 port	61

Module overview

Short code	Reducer module, type: „R“	Page
RBAIH15A	Reservoir connection module with reducer from IH15B to IH15A	67
RIH15AR	Reducer module IH15B to IH15A (right)	69
RIH20BL	Reducer module IH15B to IH20B (left)	68
RIH20BR	Reducer module IH15B to IH20B (right)	70

Short code	Module for the UPE5 drive module, type: „UPE5“	Page
UPE5A	Connection module	72
UPE5AY	Connection module with Y port	72
UPE5BA	Reservoir connection module	73
UPE5BAP1	Reservoir connection module with P1 port	73
UPE5F30	Filter module (T - line $p_{max} = 7$ bar)	74
UPE5F30P1	Filter module with P1 port (T - line $p_{max} = 7$ bar)	74
UPE5F60	Filter module (T - line $p_{max} = 7$ bar)	74
UPE5F60P1	Filter module with P1 port (T - line $p_{max} = 7$ bar)	74
UPE5SSB	Accumulator safety module	76
UPE5SSBP1	Accumulator safety module with P1 port	76

Basic module, type „G“: Design possibilities



Basic module, type „G“ (nominal dimensions in mm)

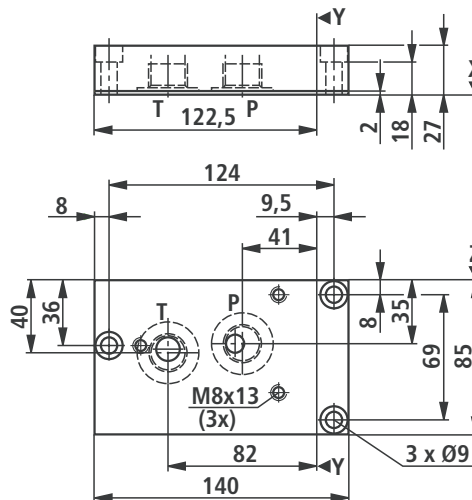
Reservoir connection module, type „BA“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
R904101347	Reservoir connection module	IH15MB-1X/BA

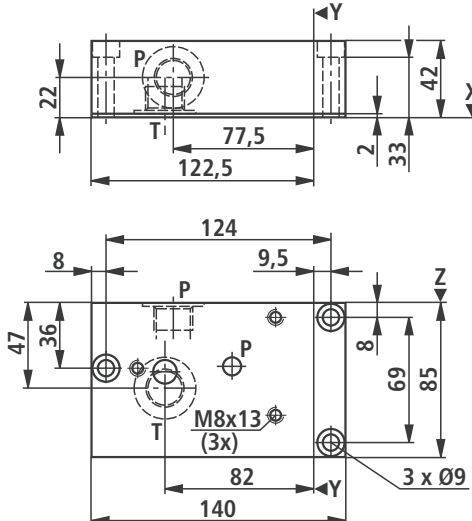
Reservoir connection module with P port to the front, type „BAP“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Reservoir connection module with P port to the front	IH15MB-1X/BAP- <input type="text" value="26"/>
R904101844		IH15MB-1X/BAP-V

<input type="text" value="26"/> Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Basic module, type „G“ (nominal dimensions in mm)

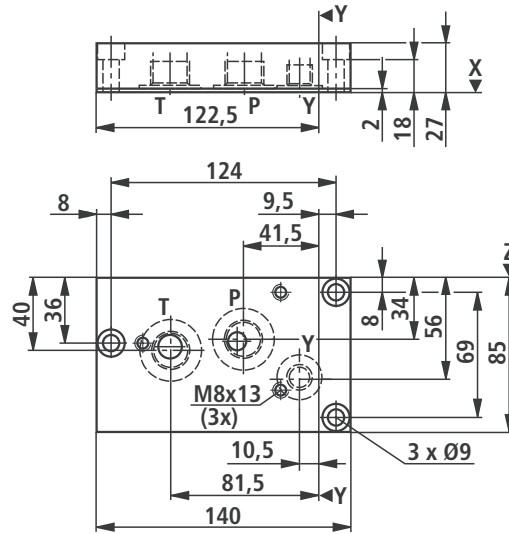
Reservoir connection module with Y port, type „BAY“

Symbol



Unit dimensions

Dim. Z = 85 mm

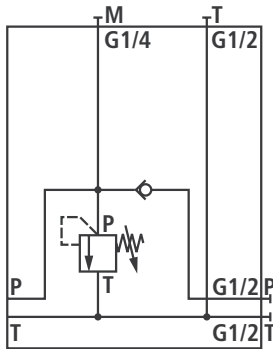


Material No.	Component description	Type code
	Reservoir connection module with Y port	IH15MB-1X/BAY
R904101843		IH15MB-1X/BAY

Basic module, type „G“ (nominal dimensions in mm)

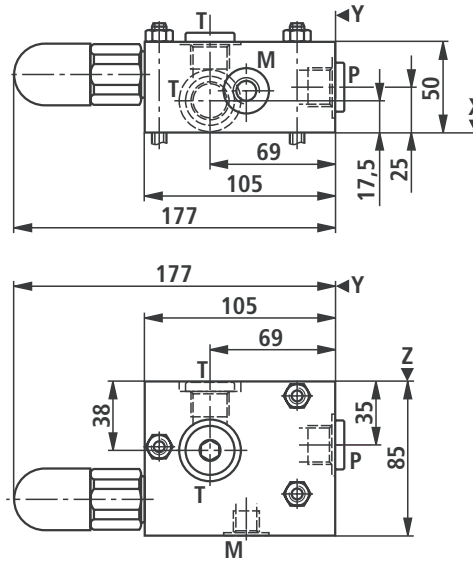
Pressure relief module, type „GDB“

Symbol



Unit dimensions

Dim. Z = 85 mm



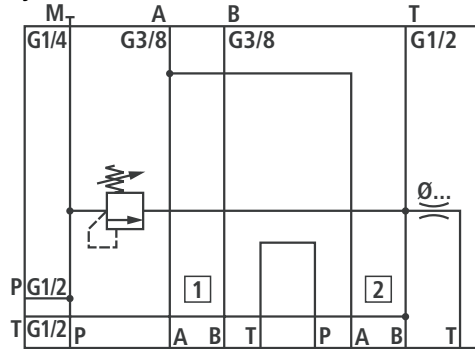
Material No.	Component description	Type code
	Pressure relief module	IH15EB-1X/GDB- <input type="checkbox"/> 1 <input type="checkbox"/> 2 / <input type="checkbox"/> 14 <input type="checkbox"/> 26
R904101893		IH15EB-1X/GDB-S100/M/V
R904101842		IH15EB-1X/GDB-S200/M/V

<input type="checkbox"/> 1	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/> 2	Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar = 25 50 bar = 50 100 bar = 100 200 bar = 200 315 bar = 315 400 bar = 400
Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!			
		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar = 50E 100 bar = 100E 140 bar = 140E 210 bar = 210E 330 bar = 330E
Characteristic curve for design tested pressure relief valves type: DBD../.E Design tested to the pressure component directive 97/23/EC			See page 78
<input type="checkbox"/> 14	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> 26	Seal	Seal material Seal material	FKM = V NBR = M

Basic module, type „G“ (nominal dimensions in mm)

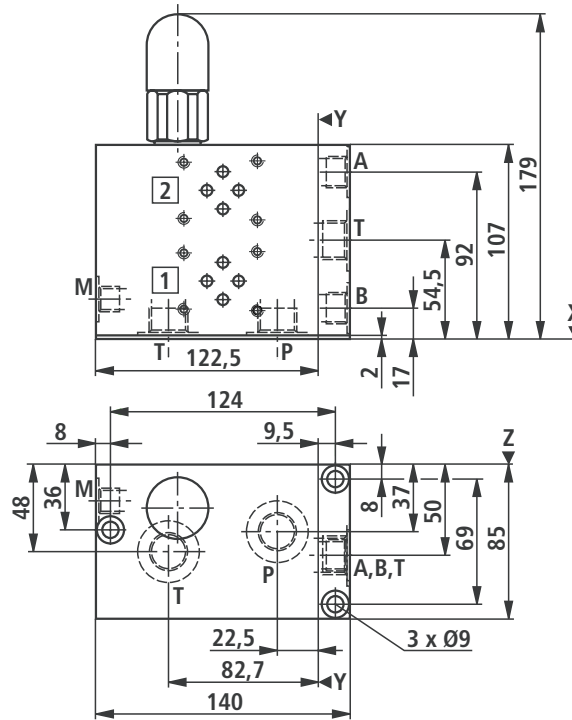
Module block AA - B - T, type „G2AABTDB“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Module block AA - B - T with pressure relief valve	IH15EB-1X/G2AABTDB- 1 2 / 14 27 / 26
R904101796		IH15EB-1X/G2AABTDB-S200/M/B10/V

1	Pressure relief valve adjustment element	Set screw with hexagon and protective cap = S Rotary knob = H Lockable rotary knob = A
2	Pressure relief valve pressure stage	Max. settable pressure up to 25 bar = 25 Max. settable pressure up to 50 bar = 50 Max. settable pressure up to 100 bar = 100 Max. settable pressure up to 200 bar = 200 Max. settable pressure up to 315 bar = 315 Max. settable pressure up to 400 bar = 400

Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive)
Further pressure stages on request!

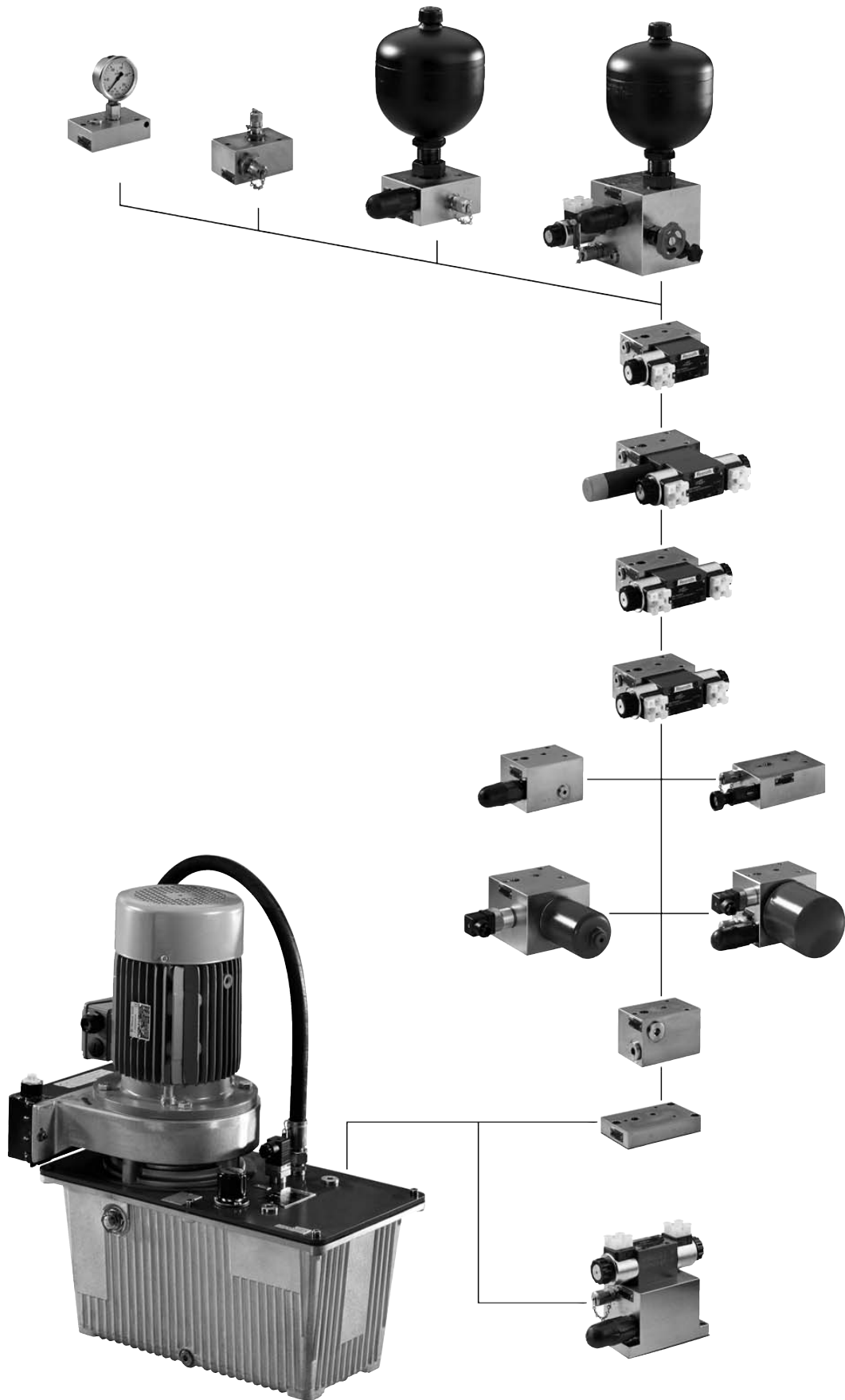
	Max. settable pressure up to 50 bar = 50E Max. settable pressure up to 100 bar = 100E Max. settable pressure up to 140 bar = 140E Max. settable pressure up to 210 bar = 210E Max. settable pressure up to 330 bar = 330E
--	---

Characteristic curve for design tested pressure relief valves type: DBD../.E
Design tested to the pressure component directive 97/23/EC

See page 78

14	Pressure monitoring	With test point = M Without pressure monitoring = O
26	Seal	Seal material FKM = V Seal material NBR = M
27	Throttle	Without throttle = No code Throttle diameter Ø 1.0 mm = B10 Throttle diameter Ø 2.5 mm = B25

Directional/poppet valve modules, types „W“, „S“: Design possibilities



Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

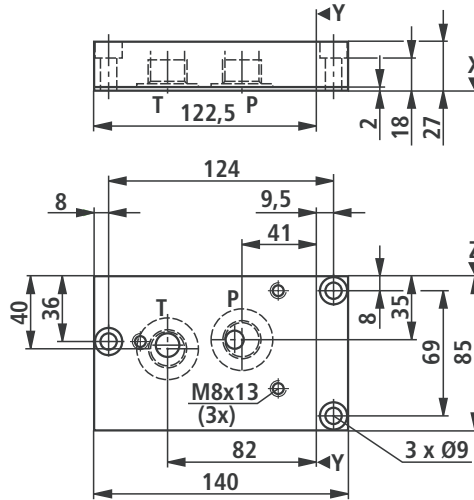
Reservoir connection module, type „BA“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
R904101347	Reservoir connection module	IH15MB-1X/BA

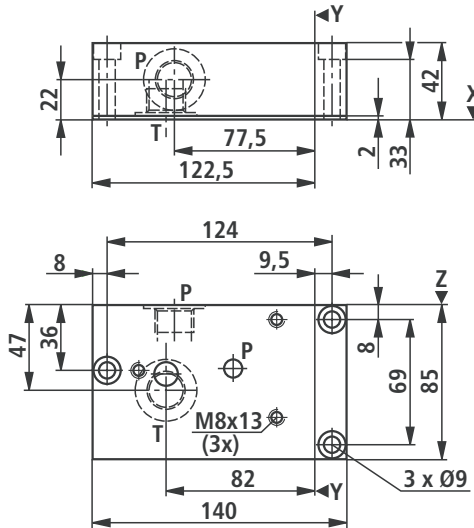
Reservoir connecton module with P port to the front, type „BAP“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Reservoir connection module with an external P port to the front	IH15MB-1X/BAP- <input type="text" value="26"/>
R904101844		IH15MB-1X/BAP-V

<input type="text" value="26"/> Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

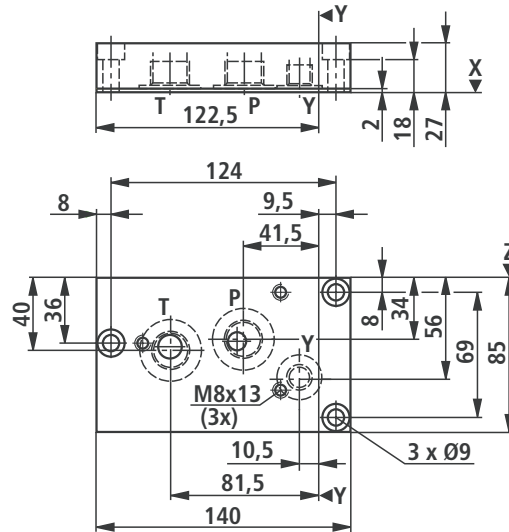
Reservoir connection module with Y port, type „BAY“

Symbol



Unit dimensions

Dim. Z = 85 mm

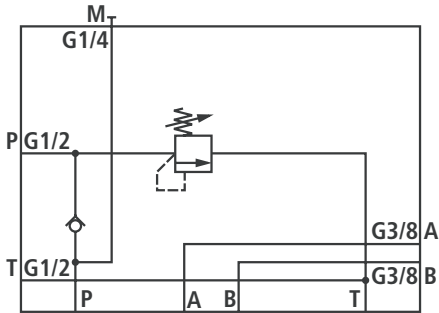


Material No.	Component description	Type code
	Reservoir connection module with Y port	IH15MB-1X/BAY
R904101843		IH15MB-1X/BAY

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

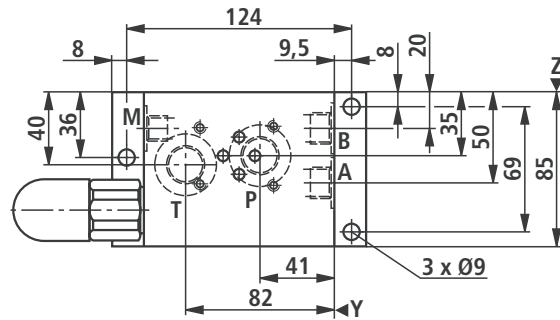
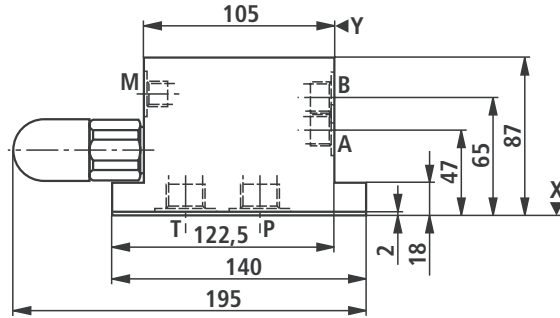
Pressure relief module, type „WDB“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Pressure relief module with one valve station	IH15EB-1X/WDB- <input type="checkbox"/> 1 <input type="checkbox"/> 2 / <input type="checkbox"/> 14 / <input type="checkbox"/> 26
R904101759		IH15EB-1X/WDB-S200/M/V
R901042115		IH15EB-1X/WDB-S200/O/V

<input type="checkbox"/> 1	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/> 2	Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar = 25 50 bar = 50 100 bar = 100 200 bar = 200 315 bar = 315 400 bar = 400

Pressure stage of the design test pressure relief valve to directive 97/23/EC (pressure component directive)
Further pressure stages on request!

		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar = 50E 100 bar = 100E 140 bar = 140E 210 bar = 210E 330 bar = 330E
--	--	--	--

Characteristic curve for design tested pressure relief valves type: DBD.../...E
Design tested to the pressure component directive 97/23/EC

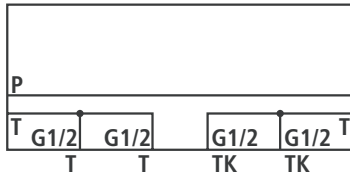
See page 78

<input type="checkbox"/> 14	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> 26	Seal	Seal material Seal material	FKM = V NBR = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

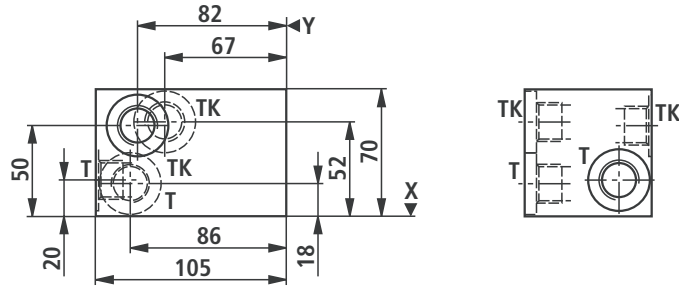
Cooler module, type „WSK“

Symbol



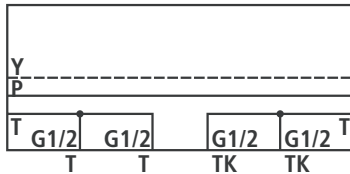
Unit dimensions

Dim. Z = 70 mm



Cooler module with Y port, type „WSKY“

Symbol



Material No.	Component description	Type code
	Cooler module	IH15MB-1X/WSK- <input type="text" value="26"/>
R904101577		IH15MB-1X/WSK-V

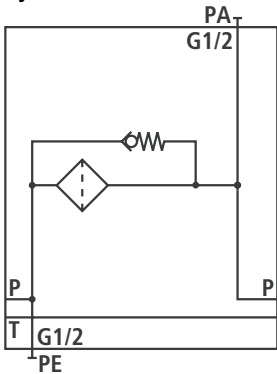
Material No.	Component description	Type code
	Cooler module with Y port	IH15MB-1X/WSKY- <input type="text" value="26"/>
R904101753		IH15MB-1X/WSKY-V

<input type="text" value="26"/>	Seal	Seal material	FKM	= V
		Seal material	NBR	= M

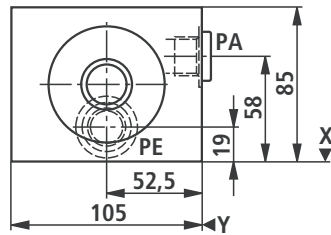
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Pressure filter module, type „DF30“ ($q_{Vmax} = 30 \text{ l/min}$, $p_{max} = 250 \text{ bar}$)

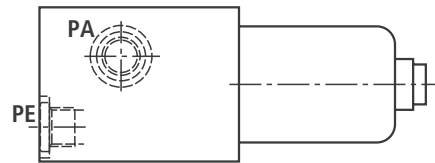
Symbol



Unit dimensions



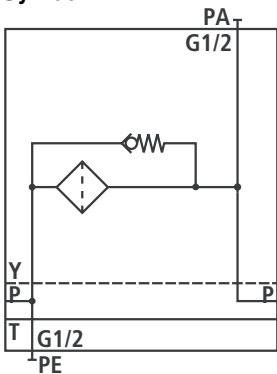
Dim. Z = 213 mm



Pressure filter module with Y port, type „DF30Y“

($q_{Vmax} = 30 \text{ l/min}$, $p_{max} = 250 \text{ bar}$)

Symbol



Material No.	Component description	Type code
	Pressure filter module ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DF30- <input type="checkbox"/> 19 / <input type="checkbox"/> 20 / <input type="checkbox"/> 26
R901065193		IH15EB-1X/DF30-10/A/V
R904101406		IH15EB-1X/DF30-10/E/V
R904101856		IH15EB-1X/DF30-10/O/V

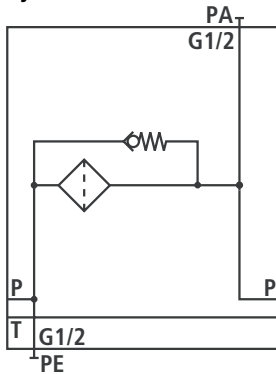
Material No.	Component description	Type code
	Pressure filter module with Y port ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DF30Y- <input type="checkbox"/> 19 / <input type="checkbox"/> 20 / <input type="checkbox"/> 26
R904101754		IH15EB-1X/DF30Y-10/E/V
R904101822		IH15EB-1X/DF30Y-10/O/V
R901042073		IH15EB-1X/DF30Y-10/A/V

<input type="checkbox"/> 19	Filter rating	06 μm 10 μm	= 06 = 10
<input type="checkbox"/> 20	Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator	= A = O = E
<input type="checkbox"/> 26	Seal	Seal material	FKM = V NBR = M

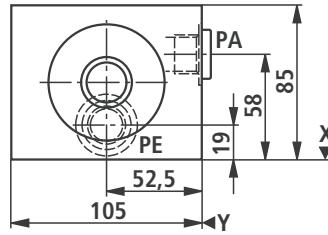
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Pressure filter module, type „DF50“ ($q_{Vmax} = 50 \text{ l/min}$, $p_{max} = 250 \text{ bar}$)

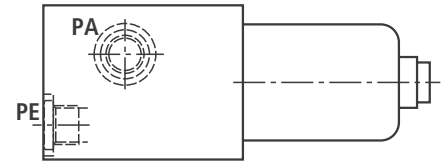
Symbol



Unit dimensions



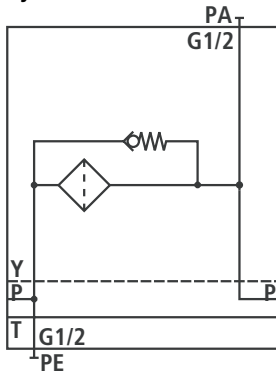
Dim. Z = 213 mm



Pressure filter module with Y port, type „DF50Y“

($q_{Vmax} = 50 \text{ l/min}$, $p_{max} = 250 \text{ bar}$)

Symbol



Material No.	Component description	Type code
	Pressure filter module ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DF50- <input type="text" value="19"/> / <input type="text" value="20"/> / <input type="text" value="26"/>
R901082780		IH15EB-1X/DF50-06/E/V
R901066445		IH15EB-1X/DF50-10/E/V

Material No.	Component description	Type code
	Pressure filter module with Y port ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DF50Y- <input type="text" value="19"/> / <input type="text" value="20"/> / <input type="text" value="26"/>
R901133344		IH15EB-1X/DF50Y-06/E/V

<input type="text" value="19"/>	Filter rating	06 μm 10 μm	= 06 = 10
<input type="text" value="20"/>	Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator	= A = O = E
<input type="text" value="26"/>	Seal	Seal material	FKM = V
		Seal material	NBR = M

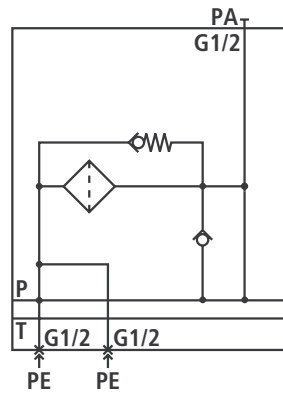
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Pressure filter module for vertical installation,

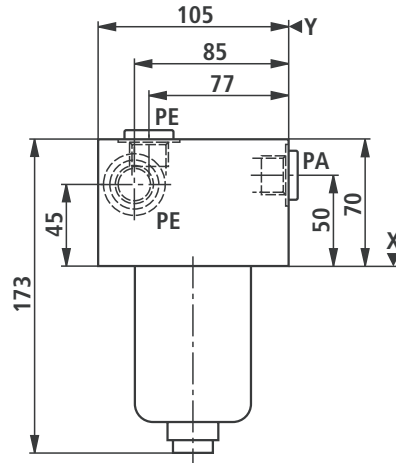
Typ „DFS30“ ($q_{Vmax} = 30 \text{ l/min}$, $p_{max} = 250 \text{ bar}$),

Typ „DFS50“ ($q_{Vmax} = 50 \text{ l/min}$, $p_{max} = 250 \text{ bar}$)

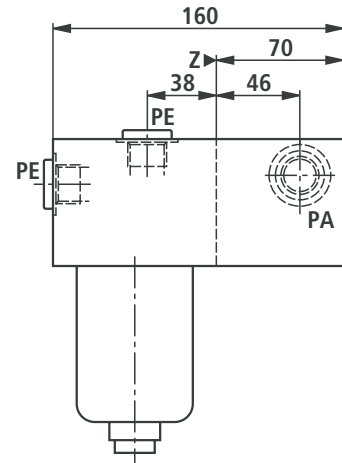
Symbol



Unit dimensions



Dim. Z = 70 mm



Material No.	Component description	Type code
	Pressure filter module for vertical installation ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DFS30- <input type="checkbox"/> 19 / <input type="checkbox"/> 20 / <input type="checkbox"/> 26
R901116906		IH15EB-1X/DFS30-10/A/V
R901116908		IH15EB-1X/DFS30-10/E/V
R901116907		IH15EB-1X/DFS30-10/O/V

Material No.	Component description	Type code
	Pressure filter module for vertical installation ($p_{max} = 250 \text{ bar}$)	IH15EB-1X/DFS50- <input type="checkbox"/> 19 / <input type="checkbox"/> 20 / <input type="checkbox"/> 26
R901133347		IH15EB-1X/DFS50-06/E/V

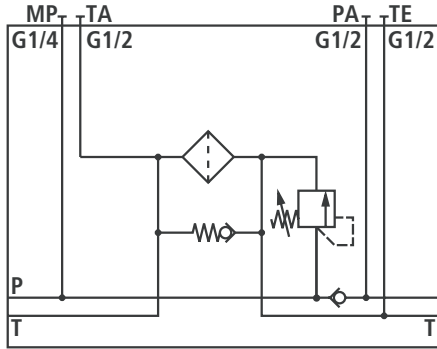
<input type="checkbox"/> 19	Filter rating	06 μm 10 μm	= 06 = 10
<input type="checkbox"/> 20	Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator	= A = O = E
<input type="checkbox"/> 26	Seal	Seal material	FKM = V NBR = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

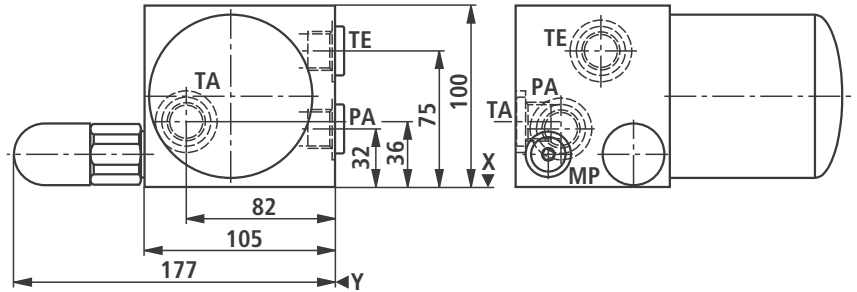
Filter module with pressure relief valve, types „F30DB“, „F60DB“ ($p_{max} = 7 \text{ bar}$) –

The filter module with pressure relief valve cannot be mounted directly onto the UPE5 drive module.

Symbol



Unit dimensions



Material No.	Component description	Type code
	Filter module with pressure relief valve	IH15EB-1X/F30DB- <div style="display: flex; justify-content: space-around; width: 100%;"> 1 2 14 19 20 26 </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 5px;"> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> </div>
R901068157		IH15EB-1X/F30DB-S100/M/10/A/V
R904101858		IH15EB-1X/F30DB-S100/M/10/E/V
R904101859		IH15EB-1X/F30DB-S100/M/10/O/V
R901068229		IH15EB-1X/F30DB-S100/O/10/A/V
R901068227		IH15EB-1X/F30DB-S100/O/10/E/V
R901068228		IH15EB-1X/F30DB-S100/O/10/O/V

Material No.	Component description	Type code
	Filter module with pressure relief valve	IH15EB-1X/F60DB- <div style="display: flex; justify-content: space-around; width: 100%;"> 1 2 14 19 20 26 </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 5px;"> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> </div>
R901068161		IH15EB-1X/F60DB-S100/M/10/A/V
R904101881		IH15EB-1X/F60DB-S100/M/10/E/V
R904101880		IH15EB-1X/F60DB-S100/M/10/O/V
R901068225		IH15EB-1X/F60DB-S100/O/10/A/V
R901068223		IH15EB-1X/F60DB-S100/O/10/E/V
R901068224		IH15EB-1X/F60DB-S100/O/10/O/V

Directional/poppet module, types „W“, „S“

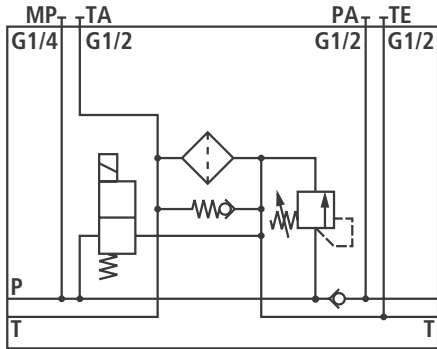
<input type="checkbox"/>	1 Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/>	2 Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar 50 bar 100 bar 200 bar 315 bar 400 bar = 25 = 50 = 100 = 200 = 315 = 400
Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!			
		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar 100 bar 140 bar 210 bar 330 bar = 50E = 100E = 140E = 210E = 330E
Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC			See page 78
<input type="checkbox"/>	14 Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/>	19 Filter rating	06 µm 10 µm	= 06 = 10
<input type="checkbox"/>	20 Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator	= A = O = E
<input type="checkbox"/>	26 Seal	Seal material Seal material	FKM NBR = V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Filter module with pressure relief valve and circulation valve, types „F30DBU“, „F60DBU“ ($p_{max} = 7 \text{ bar}$) –

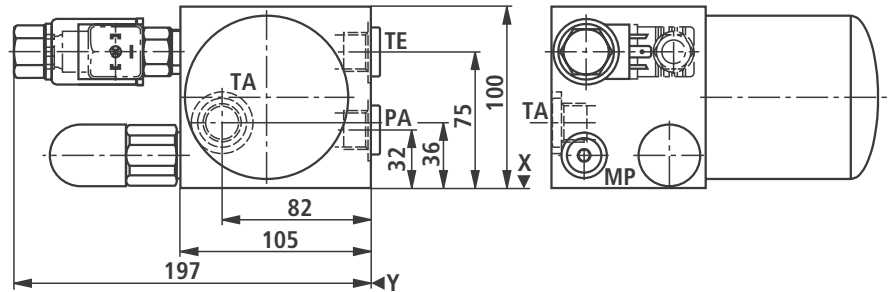
The filter module with pressure relief valve and circulation valve cannot be mounted directly onto the UPE5 drive module.

Symbol



Unit dimensions

**Dim. Z = 180 mm F30DBU
Dim. Z = 290 mm F60DBU**



Material No.	Component description	Type code
	Filter module with pressure relief valve and circulation valve	IH15EB-1X/F30DBU- <input type="text"/> ¹ <input type="text"/> ² / <input type="text"/> ₁₄ <input type="text"/> ₄ <input type="text"/> ₈ / <input type="text"/> ₁₉ <input type="text"/> ₂₀ / <input type="text"/> ₂₆
R901070590		IH15EB-1X/F30DBU-S100/MPG24/10/A/V
R904101867		IH15EB-1X/F30DBU-S100/MPG24/10/E/V
R904101868		IH15EB-1X/F30DBU-S100/MPG24/10/O/V
R901070591		IH15EB-1X/F30DBU-S200/MPG24/10/A/V
R904101869		IH15EB-1X/F30DBU-S200/MPG24/10/E/V
R904101870		IH15EB-1X/F30DBU-S200/MPG24/10/O/V

Material No.	Component description	Type code
	Filter module with pressure relief valve and circulation valve	IH15EB-1X/F60DBU- <input type="text"/> ¹ <input type="text"/> ² / <input type="text"/> ₁₄ <input type="text"/> ₄ <input type="text"/> ₈ / <input type="text"/> ₁₉ <input type="text"/> ₂₀ / <input type="text"/> ₂₆
R901070592		IH15EB-1X/F60DBU-S100/MPG24/10/A/V
R904101348		IH15EB-1X/F60DBU-S100/MPG24/10/E/V
R904101873		IH15EB-1X/F60DBU-S100/MPG24/10/O/V
R901070593		IH15EB-1X/F60DBU-S200/MPG24/10/A/V
R904101872		IH15EB-1X/F60DBU-S200/MPG24/10/E/V
R904101871		IH15EB-1X/F60DBU-S200/MPG24/10/O/V

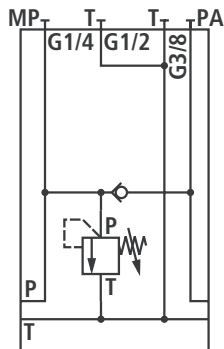
Directional/poppet valve module, types „W“, „S“

<input type="checkbox"/>	1 Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob		= S = H = A
<input type="checkbox"/>	2 Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar 50 bar 100 bar 200 bar 315 bar 400 bar	= 25 = 50 = 100 = 200 = 315 = 400
Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!				
		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar 100 bar 140 bar 210 bar 330 bar	= 50E = 100E = 140E = 210E = 330E
Characteristic curve for design tested pressure relief valves type: DBD../.E Design tested to the pressure component directive 97/23/EC				See page 78
<input type="checkbox"/>	4 2 / 2 poppet valve code	Normally closed Normally open		= N = P
<input type="checkbox"/>	8 Poppet valve solenoid voltage	Voltage	24 V DC	= G24
<input type="checkbox"/>	14 Pressure monitoring	Without test point Without pressure monitoring		= M = O
<input type="checkbox"/>	19 Filter rating	06 µm 10 µm		= 06 = 10
<input type="checkbox"/>	20 Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator		= A = O = E
<input type="checkbox"/>	26 Seal	Seal material Seal material	FKM NBR	= V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

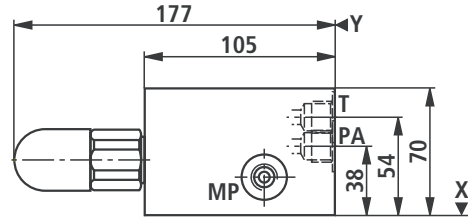
Pressure relief valve, type „SDB“

Symbol



Unit dimensions

Dim. Z = 85 mm



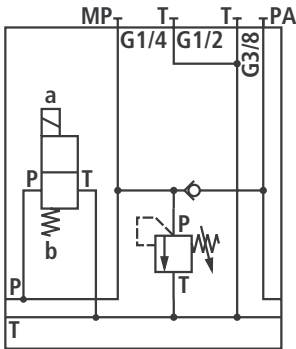
Material No.	Component description	Type code
	Pressure relief module	IH15EB-1X/SDB- <input type="checkbox"/> ¹ <input type="checkbox"/> ² / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901065894		IH15EB-1X/SDB-A100/M/V
R901065267		IH15EB-1X/SDB-A100/O/V
R901065895		IH15EB-1X/SDB-H100/M/V
R901065269		IH15EB-1X/SDB-H100/O/V
R901065896		IH15EB-1X/SDB-S100/M/V
R904101875		IH15EB-1X/SDB-S100/O/V

<input type="checkbox"/> ¹	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/> ²	Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar = 25 50 bar = 50 100 bar = 100 200 bar = 200 315 bar = 315 400 bar = 400
Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!			
		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar = 50E 100 bar = 100E 140 bar = 140E 210 bar = 210E 330 bar = 330E
Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC			See page 78
<input type="checkbox"/> ¹⁴	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²⁶	Seal	Seal material Seal material	FKM = V NBR = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

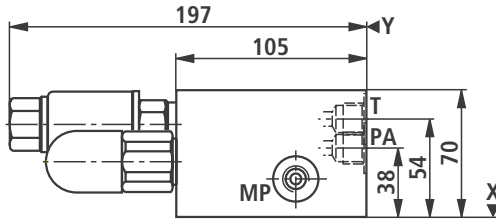
Pressure relief module with circulation valve, type „SDBU“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Pressure relief module with circulation valve	IH15EB-1X/SDBU- <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/>
R901039998		IH15EB-1X/SDBU-A200/MPG24/V
R901040000		IH15EB-1X/SDBU-A200/OPG24/V
R901039996		IH15EB-1X/SDBU-H200/MPG24/V
R901089997		IH15EB-1X/SDBU-H200/OPG24/V
R904101825		IH15EB-1X/SDBU-S50/MPG24/V
R904101343		IH15EB-1X/SDBU-S100/MPG24/V
R904101833		IH15EB-1X/SDBU-S200/MPG24/V
R901039995		IH15EB-1X/SDBU-S200/OPG24/V
R904101882		IH15EB-1X/SDBU-S315/MPG24/V

<input type="text"/>	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="text"/>	Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar = 25 50 bar = 50 100 bar = 100 200 bar = 200 315 bar = 315 400 bar = 400

Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive)
Further pressure stages on request!

		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar = 50E 100 bar = 100E 140 bar = 140E 210 bar = 210E 330 bar = 330E
--	--	--	--

Characteristic curve for design tested pressure relief valves type: DBD../..E
Design tested to the pressure component directive 97/23/EC

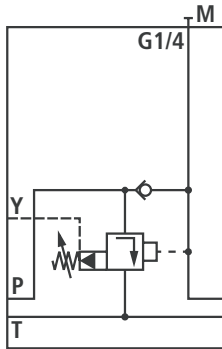
See page 78

<input type="text"/>	2 / 2 poppet valve code	Normally closed Normally open	= N = P
<input type="text"/>	Poppet valve solenoid voltage	Voltage	24 V DC = G24
<input type="text"/>	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="text"/>	Seal	Seal material Seal material	FKM = V NBR = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

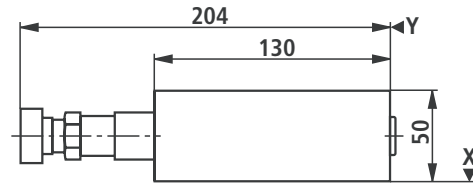
Pressure cut-off module, type „SDA“

Symbol



Unit dimensions

Dim. Z = 95 mm



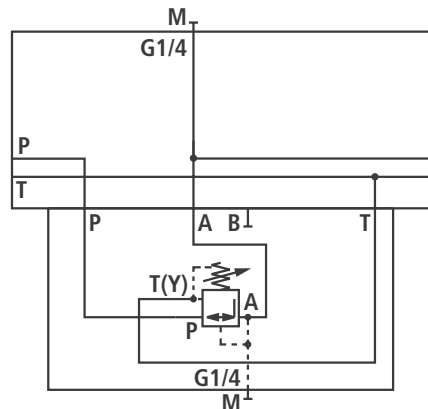
Material No.	Component description	Type code
	Pressure cut-off module	IH15EB-1X/SDA- <input type="checkbox"/> ²³ / <input type="checkbox"/> ²⁴ - <input type="checkbox"/> ²⁵ / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101794		IH15EB-1X/SDA-1/200-17/M/V
R901066733		IH15EB-1X/SDA-1/200-17/O/V
R904101883		IH15EB-1X/SDA-2/200-17/M/V
R901066735		IH15EB-1X/SDA-2/200-17/O/V
R904101885		IH15EB-1X/SDA-2/315-17/M/V
R901066730		IH15EB-1X/SDA-3/200-17/M/V
R901066736		IH15EB-1X/SDA-3/200-17/O/V
R901066731		IH15EB-1X/SDA-7/200-17/M/V
R901066737		IH15EB-1X/SDA-7/200-17/O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring		= M = O
<input type="checkbox"/> ²³ Pressure cut-off valve adjustment element	Rotary knob Sleeve with hexagon and protective cap Lockable rotary knob Rotary knob with scale		= 1 = 2 = 3 = 7
<input type="checkbox"/> ²⁴ Pressure cut-off valve pressure stage	Max. settable pressure up to	50 bar 100 bar 200 bar 315 bar	= 50 = 100 = 200 = 315
<input type="checkbox"/> ²⁵ Switching pressure differential	Switching pressure differential	10% 17%	= 10 = 17
<input type="checkbox"/> ²⁶ Seal	Seal material	FKM NBR	= V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

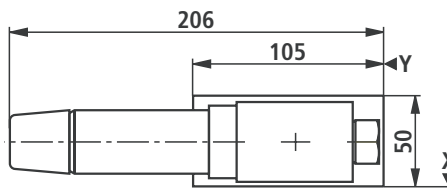
Pressure reducing module, type „WDR“

Symbol



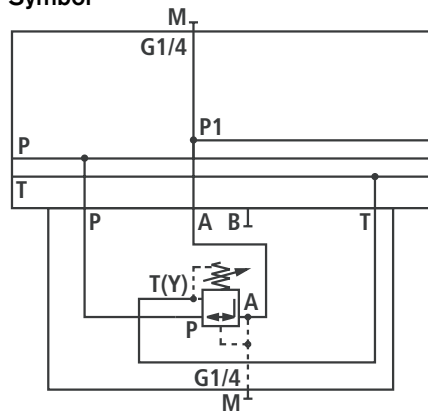
Unit dimensions

Dim. Z = 120 mm



Pressure reducing module with P1 port, type „WDRP1“

Symbol



Material No.	Component description	Type code
	Pressure reducing module	IH15MB-1X/WDR- <input type="text" value="16"/> / <input type="text" value="17"/> / <input type="text" value="14"/> / <input type="text" value="26"/>
R901066169		IH15MB-1X/WDR-1/210/M/V
R901066168		IH15MB-1X/WDR-1/210/O/V
R904101852		IH15MB-1X/WDR-2/75/M/V
R904102085		IH15MB-1X/WDR-2/75/O/V
R904101559		IH15MB-1X/WDR-2/150/M/V
R904101853		IH15MB-1X/WDR-2/210/M/V
R904101854		IH15MB-1X/WDR-2/315/M/V
R901066167		IH15MB-1X/WDR-3/210/M/V
R901066166		IH15MB-1X/WDR-3/210/O/V
R901066165		IH15MB-1X/WDR-7/210/M/V
R901066164		IH15MB-1X/WDR-7/210/O/V

Directional/poppet valve module , types „W“, „S“

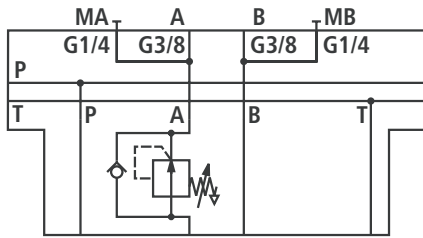
Material No.	Component description	Type code
	Pressure reducing module with P1 port	IH15MB-1X/WDRP1- <input type="checkbox"/> ¹⁶ / <input type="checkbox"/> ¹⁷ / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101755		IH15MB-1X/WDRP1-1/150/M/V
R901067481		IH15MB-1X/WDRP1-1/150/O/V
R904101636		IH15MB-1X/WDRP1-2/75/M/V
R901067480		IH15MB-1X/WDRP1-2/75/O/V
R904101855		IH15MB-1X/WDRP1-2/150/M/V
R901067478		IH15MB-1X/WDRP1-2/150/O/V
R901067482		IH15MB-1X/WDRP1-3/210/M/V
R901067483		IH15MB-1X/WDRP1-3/210/O/V
R901067485		IH15MB-1X/WDRP1-7/210/M/V
R901067486		IH15MB-1X/WDRP1-7/210/O/V

<input type="checkbox"/> ¹⁴	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ¹⁶	Pressure reducing valve adjustment element	Rotary knob Set screw with hexagon and protective cap Lockable rotary knob with scale Rotary knob with scale	= 1 = 2 = 3 = 7
<input type="checkbox"/> ¹⁷	Secondary pressure	Max. secondary pressure Max. secondary pressure Max. secondary pressure Max. secondary pressure Max. secondary pressure	25 bar = 25 75 bar = 75 150 bar = 150 210 bar = 210 315 bar = 315
<input type="checkbox"/> ²⁶	Seal	Seal material Seal material	FKM = V NBR = M

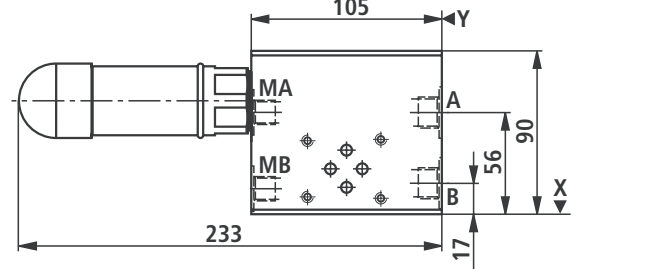
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Segment module with Pressure reducing valve in the port A, type „WZDR-A“

Symbol

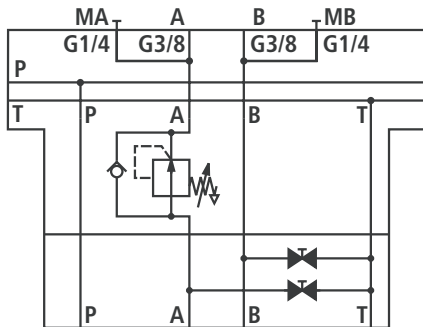


Unit dimensions

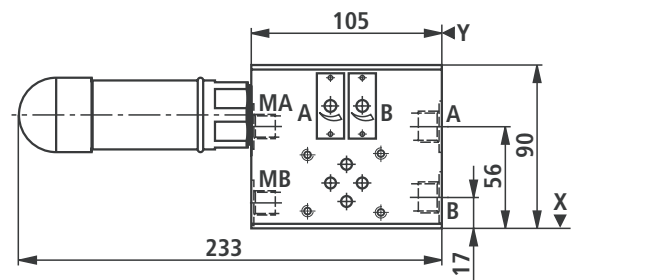


Segment module with Pressure reducing valve in the port A and drain cock, type „WZDR-A/A“

Symbol

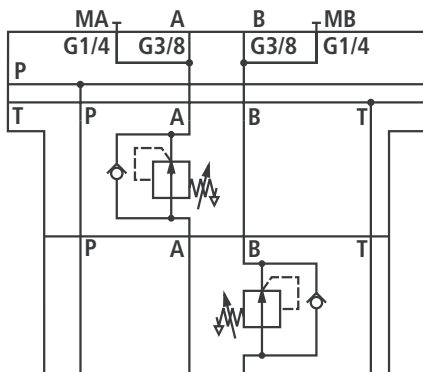


Unit dimensions

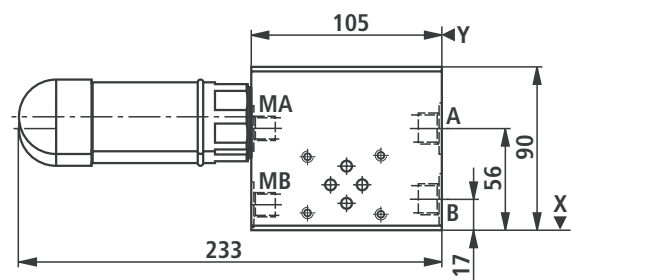


Segment module with Pressure reducing valve in the port AB, type „WZDR-AB“

Symbol

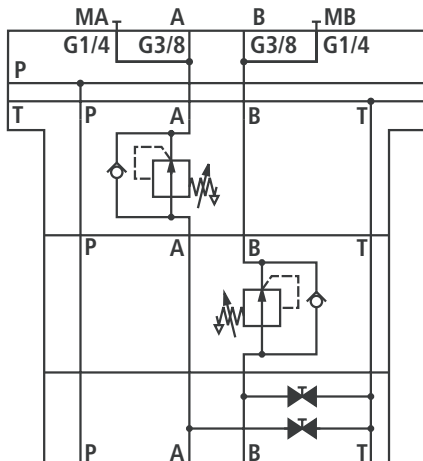


Unit dimensions

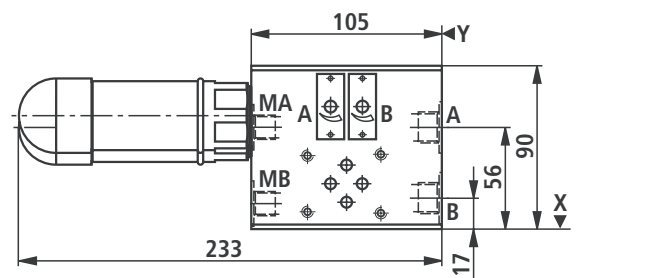


Segment module with Pressure reducing valve in the port AB and drain cock, type „WZDR-AB/A“

Symbol



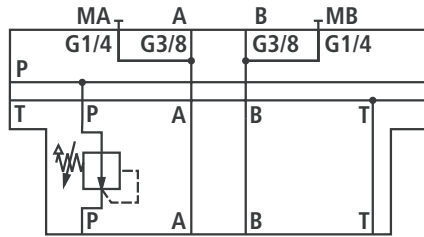
Unit dimensions



Directional/poppet valve module , types „W“, „S“

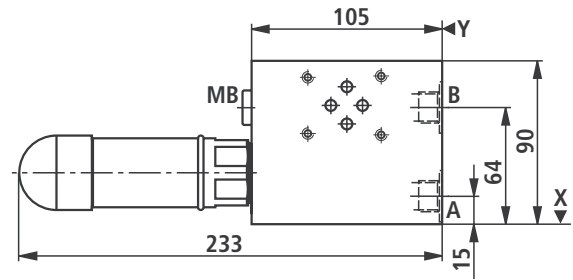
Segment module with Pressure reducing valve in the port P, type „WZDR-P“

Symbol



Unit dimensions

Dim. Z = 95 mm



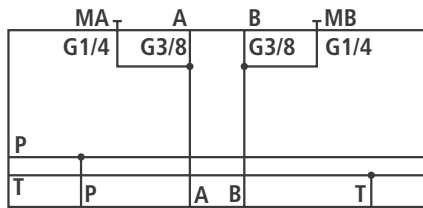
Material No.	Component description	Type code
	Segment module with Pressure reducing valve	IH15EB-1X/WZDR- <input type="checkbox"/> ₂₉ / <input type="checkbox"/> ₃₂ <input type="checkbox"/> ₃₃ / <input type="checkbox"/> ₃₄ / <input type="checkbox"/> ₁₄ / <input type="checkbox"/> ₂₆
R904102218		IH15EB-1X/WZDR-AB/2/100/M/V
R904102219		IH15EB-1X/WZDR-AB/2/100D/M/V
R901040102		IH15EB-1X/WZDR-AB/2/210/M/V
R901063736		IH15EB-1X/WZDR-AB/2/210D/M/V
R904101639		IH15EB-1X/WZDR-A/2/100/M/V
R904102089		IH15EB-1X/WZDR-A/2/100D/M/V
R901024724		IH15EB-1X/WZDR-A/2/210D/M/V
R904101807		IH15EB-1X/WZDR-A/2/315/M/V
R901110142		IH15EB-1X/WZDR-P/2/210/M/V
R901110143		IH15EB-1X/WZDR-P/2/210D/M/V

<input type="checkbox"/> 14	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> 26	Seal	Seal material Seal material	FKM = V NBR = M
<input type="checkbox"/> 29	Cartridge valve	in port A in port A and B in port P	= A = AB = P
<input type="checkbox"/> 32	Isolator cock	without Isolator cock with Isolator cock	= No code = A
<input type="checkbox"/> 33	Pressure reducing valve adjustment element	Set screw with hexagon and protective cap Lockable rotary knob with scale	= 2 = 3
<input type="checkbox"/> 34	Secondary pressure	max. Secondary pressure max. Secondary pressure max. Secondary pressure max. Secondary pressure with pressure switch max. Secondary pressure with pressure switch max. Secondary pressure with pressure switch	100 bar = 100 210 bar = 210 315 bar = 315 100 bar = 100D 210 bar = 210D 315 bar = 315D

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

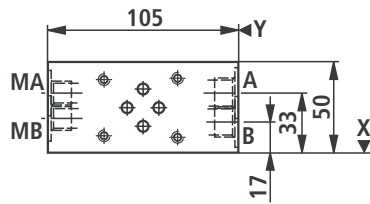
Segment module, type „WZ“

Symbol



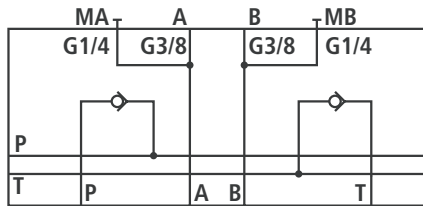
IH15MB-1X/WZ-...

Unit dimensions

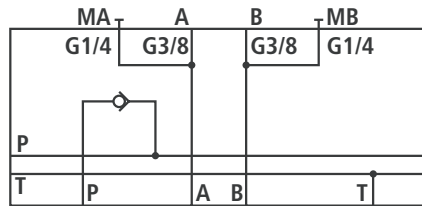


Dim. Z = 70 mm
Without check valve

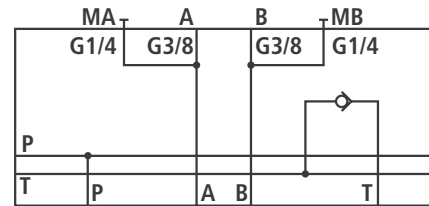
Dim. Z = 85 mm
With check valve



IH15MB-1X/WZ-PT/...



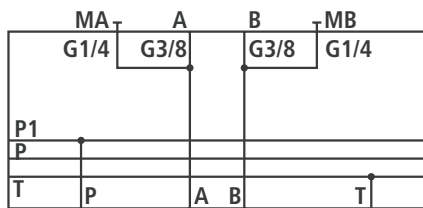
IH15MB-1X/WZ-P/...



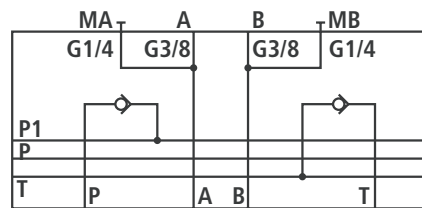
IH15MB-1X/WZ-T/...

Segment module with P1 port, type „WZP1“

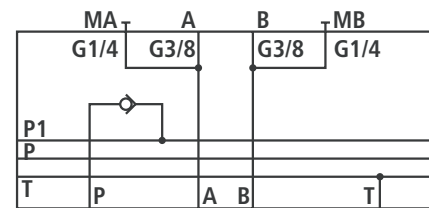
Symbol



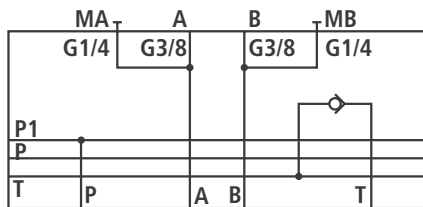
IH15MB-1X/WZP1-...



IH15MB-1X/WZP1-PT/...



IH15MB-1X/WZP1-P/...



IH15MB-1X/WZP1-T/...

Material No.	Component description	Type code
	Segment module	IH15MB-1X/WZ- <input type="text" value="21"/> / <input type="text" value="14"/> / <input type="text" value="26"/>
R904101345		IH15MB-1X/WZ-M/V
R904101410		IH15MB-1X/WZ-O/V
R901067488		IH15MB-1X/WZ-PT/M/V
R901067489		IH15MB-1X/WZ-PT/O/V
R901067490		IH15MB-1X/WZ-P/M/V
R901067491		IH15MB-1X/WZ-P/O/V
R901065897		IH15MB-1X/WZ-T/M/V
R904101455		IH15MB-1X/WZ-T/O/V

Directional/poppet valve module, types „W“, „S“

Material No.	Component description	Type code
	Segment module with P1 port	IH15MB-1X/WZP1- <input type="checkbox"/> ²¹ / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101830		IH15MB-1X/WZP1-M/V
R904101598		IH15MB-1X/WZP1-O/V
R901067493		IH15MB-1X/WZP1-PT/M/V
R901067495		IH15MB-1X/WZP1-PT/O/V
R901067497		IH15MB-1X/WZP1-P/M/V
R904101756		IH15MB-1X/WZP1-P/O/V
R901067498		IH15MB-1X/WZP1-T/M/V
R901067499		IH15MB-1X/WZP1-T/O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²¹ Check valve	Without check valve In port P In port T In ports P and T	= No code = P = T = PT
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM NBR = V = M

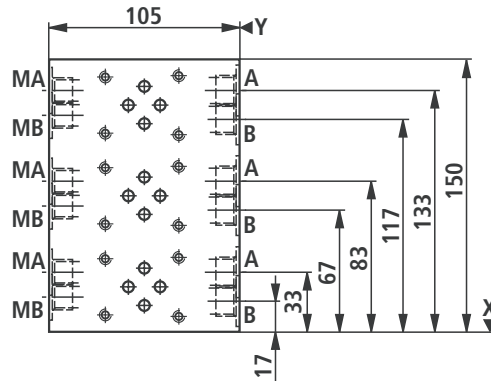
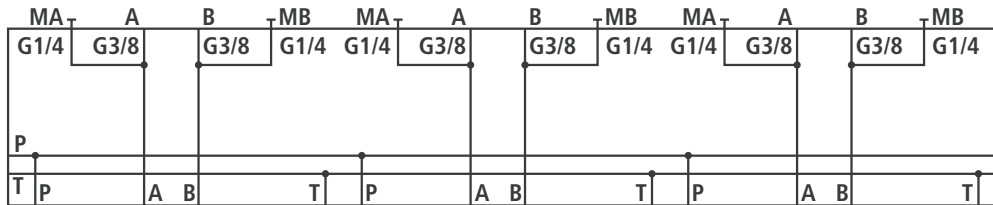
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Segment module with 3 valve stations, type „WZ3“

Symbol

Unit dimensions

Dim. Z = 70 mm

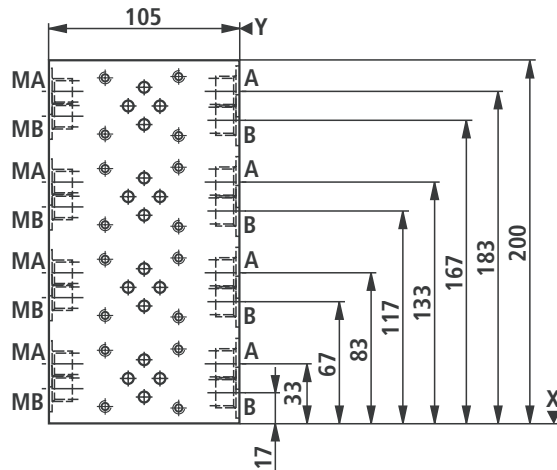
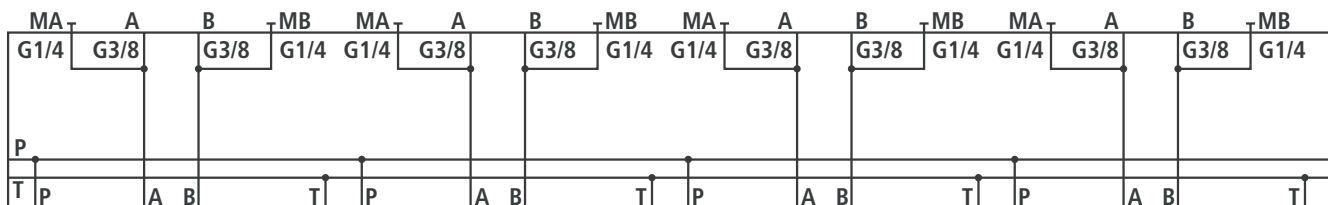


Segment module with 4 valve stations, type „WZ4“

Symbol

Unit dimensions

Dim. Z = 70 mm



Directional/poppet valve module, types „W“, „S“

Material No.	Component description	Type code
	Segment module, 3 valve stations	IH15MB-1X/WZ3- <input type="text" value="14"/> / <input type="text" value="26"/>
R901096707		IH15EB-1X/WZ3-M/V
R901096708		IH15EB-1X/WZ3-O/V

Material No.	Component description	Type code
	Segment module, 4 valve stations	IH15MB-1X/WZ4- <input type="text" value="14"/> / <input type="text" value="26"/>
R901090430		IH15EB-1X/WZ4-M/V
R901096706		IH15EB-1X/WZ4-O/V

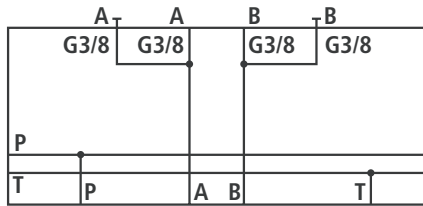
<input type="text" value="14"/>	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="text" value="26"/>	Seal	Seal material Seal material	FKM NBR = V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

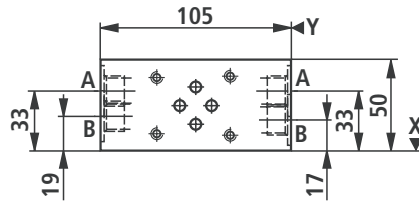
Segment module in special design -008

(outlets A and B, 2x G3/8 each), type „WZ-...-008“

Symbol



Unit dimensions

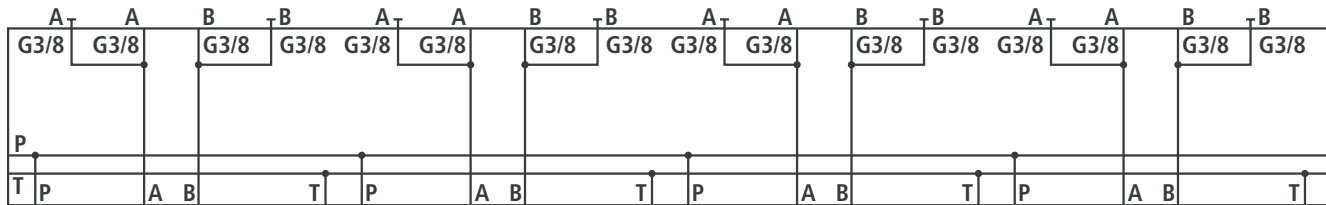


Dim Z = 70 mm

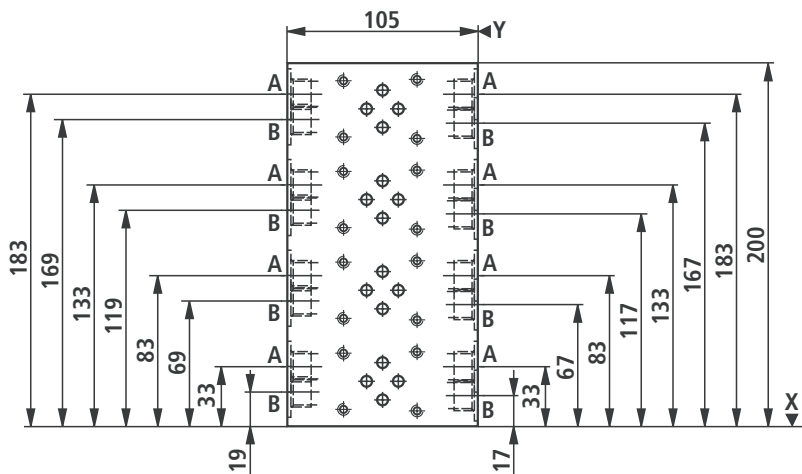
Segment module with 4 valve stations in special design -008

(Aoutlets A and B, 2x G3/8 each), type „WZ4-...-008“

Symbol



Unit dimensions



Dim Z = 70 mm

Directional/poppet valve module, types „W“, „S“

Material No.	Component description	Type code
	Segment module in special design - 008, 1 valve station	IH15MB-1X/WZ- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶ -008
R901128760		IH15MB-1X/WZ-M/V-008
R901125893		IH15MB-1X/WZ-O/V-008

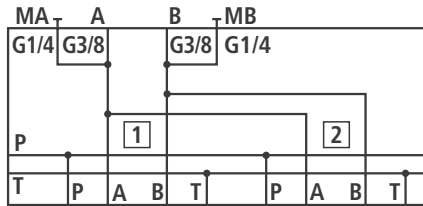
Material No.	Component description	Type code
	Segment module in special design - 008, 4 valve stations	IH15MB-1X/WZ4- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶ -008
R901128761		IH15MB-1X/WZ4-M/V-008
R901125863		IH15MB-1X/WZ4-O/V-008

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM NBR = V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

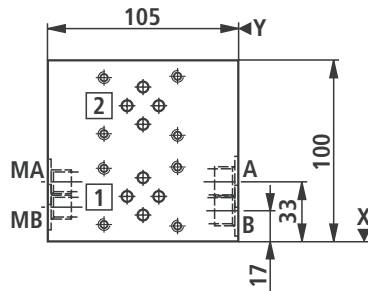
Segment module 2 – AA - BB, type „WZ2AABB“

Symbol



Unit dimensions

Dim. Z = 70 mm

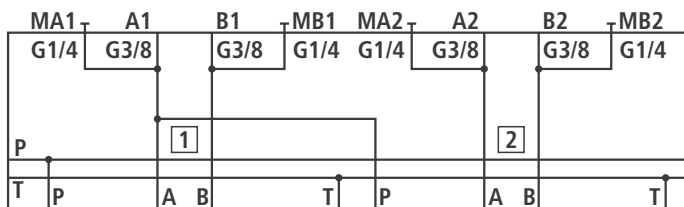


Material No.	Component description	Type code
	Segment module, 2 valve stations AA - BB ports connected	IH15MB-1X/WZ2AABB- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101364		IH15MB-1X/WZ2AABB-M/V
R904101411		IH15MB-1X/WZ2AABB-O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM = V NBR = M

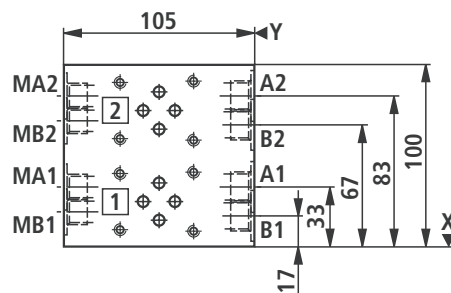
Segment module 2 – AP, Typ „WZ2AP“

Symbol



Unit dimensions

Dim. Z = 70 mm



Material No.	Component description	Type code
	Segment module, 2 valve stations A - P - channel connected	IH15MB-1X/WZ2AP- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901094521		IH15MB-1X/WZ2AP-M/V
R901094520		IH15MB-1X/WZ2AP-O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM = V NBR = M

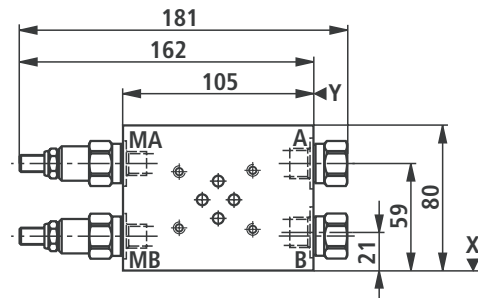
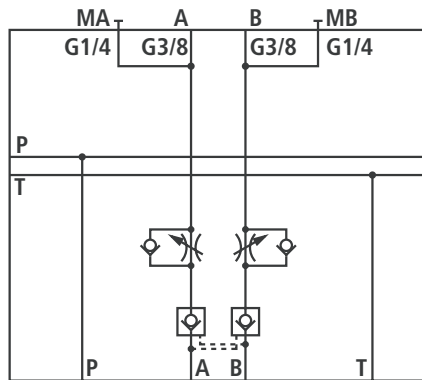
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Segment module with cartridge valves, type „WZE“

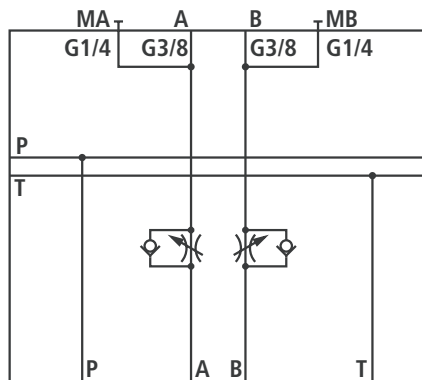
Symbol

Unit dimensions

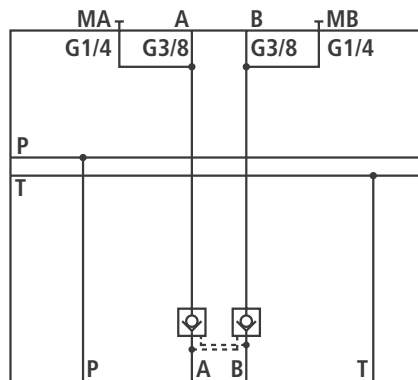
Dim. Z = 110 mm



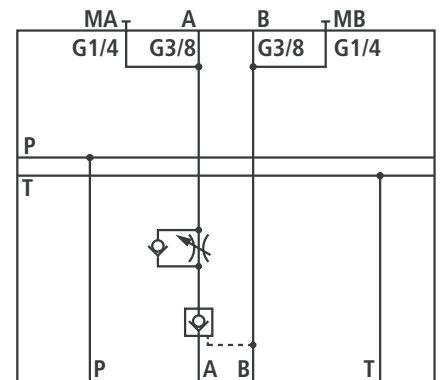
IH15EB-1X/WZE-FSR/AB...



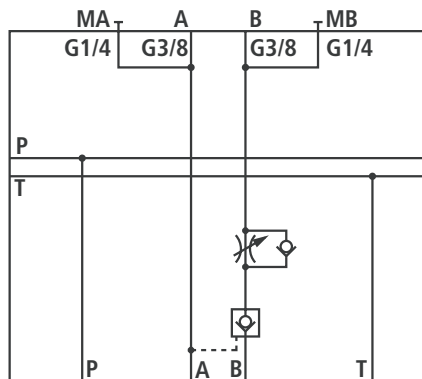
IH15EB-1X/WZE-FS/AB...



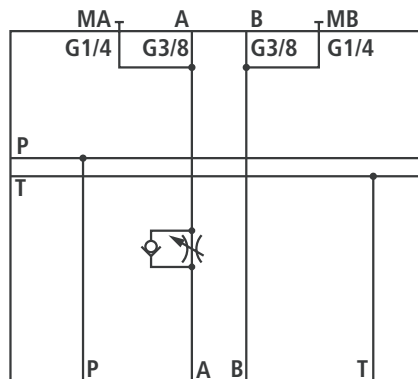
IH15EB-1X/WZE-R/AB...



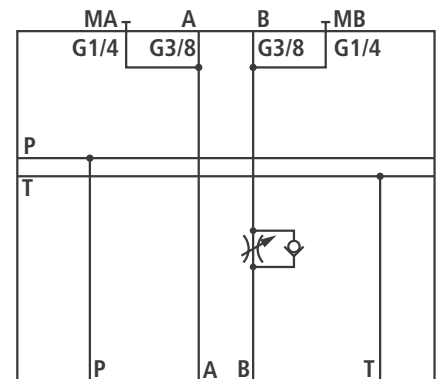
IH15EB-1X/WZE-FSR/A...



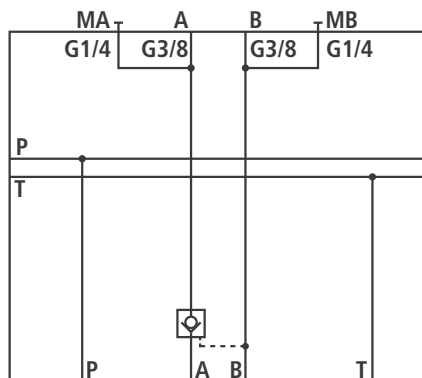
IH15EB-1X/WZE-FSR/B...



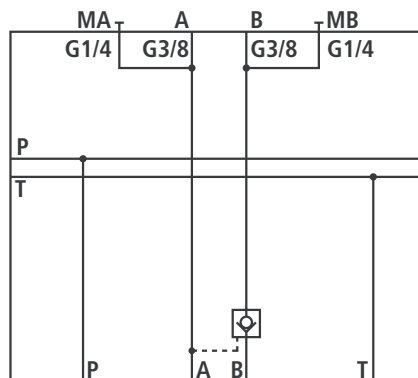
IH15EB-1X/WZE-FS/A...



IH15EB-1X/WZE-FS/B...



IH15EB-1X/WZE-R/A...

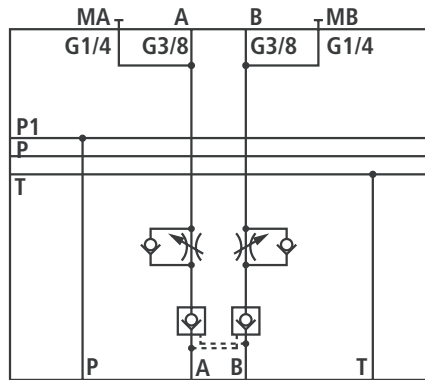


IH15EB-1X/WZE-R/B...

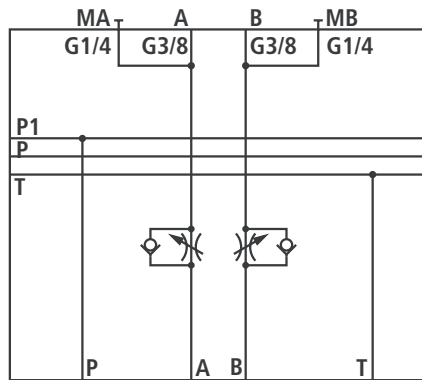
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Segment module with cartridge valves, type „WZEP1“

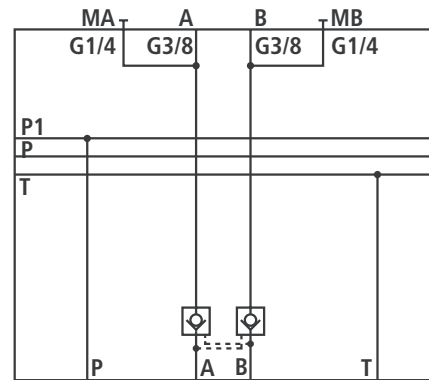
Symbol



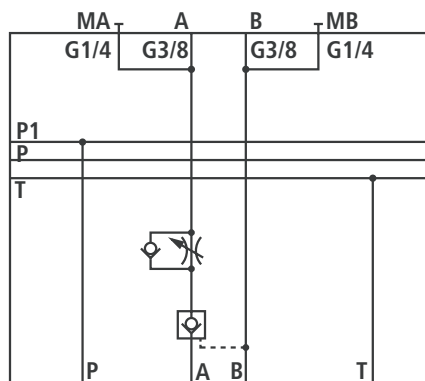
IH15EB-1X/WZEP1-FSR/AB...



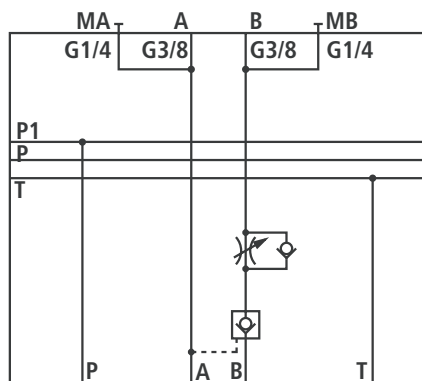
IH15EB-1X/WZEP1-FS/AB...



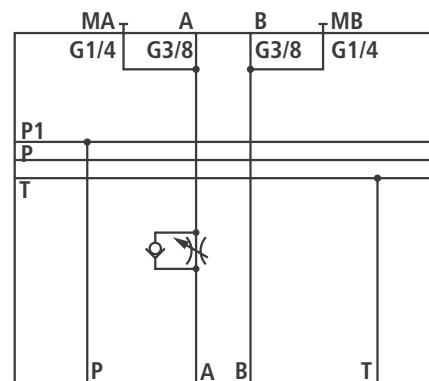
IH15EB-1X/WZEP1-R/AB...



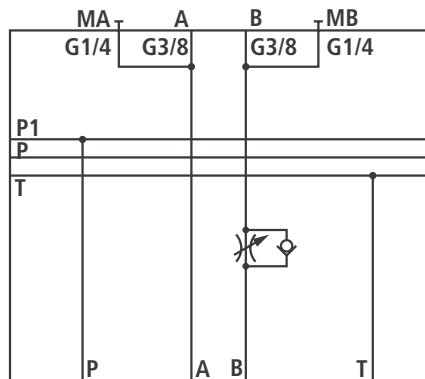
IH15EB-1X/WZEP1-FSR/A...



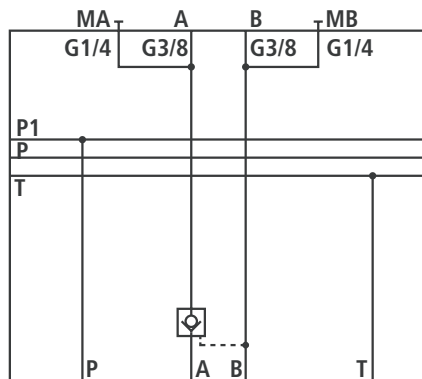
IH15EB-1X/WZEP1-FSR/B...



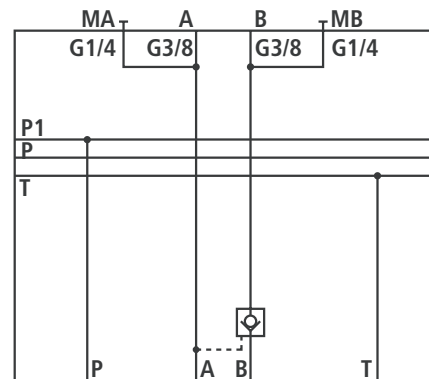
IH15EB-1X/WZEP1-FS/A...



IH15EB-1X/WZEP1-FS/B...



IH15EB-1X/WZEP1-R/A...



IH15EB-1X/WZEP1-R/B...

Material No.	Component description	Type code
	Segment module with cartridge valves	IH15EB-1X/WZE- <input type="text" value="28"/> / <input type="text" value="29"/> / <input type="text" value="14"/> / <input type="text" value="26"/>
R904101344		IH15EB-1X/WZE-FSR/AB/M/V
R901067578		IH15EB-1X/WZE-FSR/AB/O/V
R901067579		IH15EB-1X/WZE-FS/AB/M/V
R901067580		IH15EB-1X/WZE-FS/AB/O/V
R901067581		IH15EB-1X/WZE-R/AB/M/V
R901067582		IH15EB-1X/WZE-R/AB/O/V

Directional/poppet valve module, types „W“, „S“

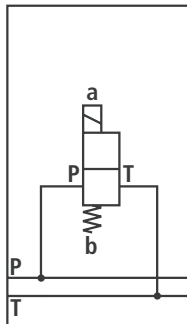
Material No.	Component description	Type code
	Segment module with cartridge valves and P1 port	IH15EB-1X/WZEP1- <input type="checkbox"/> ²⁸ / <input type="checkbox"/> ²⁹ / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901067583		IH15EB-1X/WZEP1-FSR/AB/M/V
R901067584		IH15EB-1X/WZEP1-FSR/AB/O/V
R901067585		IH15EB-1X/WZEP1-FS/AB/M/V
R901067586		IH15EB-1X/WZEP1-FS/AB/O/V
R901067587		IH15EB-1X/WZEP1-R/AB/M/V
R901067675		IH15EB-1X/WZEP1-R/AB/O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point With pressure monitoring	= M = O
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM = V NBR = M
<input type="checkbox"/> ²⁸ Cartridge valve	Adjustment throttle check valve Pilot operated check valve Adjustment throttle check valve and pilot operated check valve	= FS = R = FSR
<input type="checkbox"/> ²⁹ Cartridge valve	In port A In port B In ports A and B	= A = B = AB

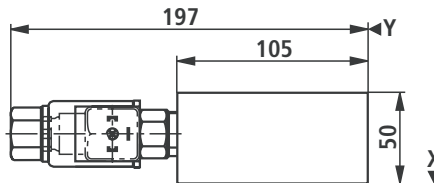
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Circulation module, type „SU“

Symbol



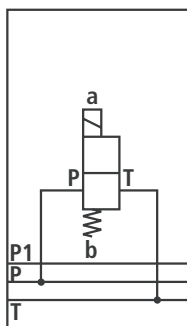
Unit dimensions



Dim. Z = 70 mm

Circulation module with P1 port, type „SUP1“

Symbol



Material No.	Component description	Type code
	Circulation module	IH15EB-1X/SU- <input type="text" value="4"/> <input type="text" value="8"/> / <input type="text" value="26"/>
R904101894		IH15EB-1X/SU-NG24/V
R904101895		IH15EB-1X/SU-PG24/V

Material No.	Component description	Type code
	Circulation module with P1 port	IH15EB-1X/SUP1- <input type="text" value="4"/> <input type="text" value="8"/> / <input type="text" value="26"/>
R904101896		IH15EB-1X/SUP1-NG24/V
R904101897		IH15EB-1X/SUP1-PG24/V

<input type="text" value="4"/>	2 / 2 poppet valve code	Normally closed Normally open	= N = P
<input type="text" value="8"/>	Poppet valve solenoid voltage	Voltage	24 V DC = G24
<input type="text" value="26"/>	Seal	Seal material Seal material	FKM NBR = V = M

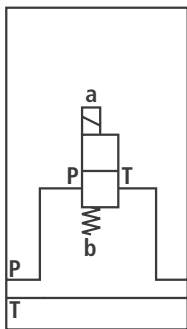
Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

Module P, type „SP“

Symbol

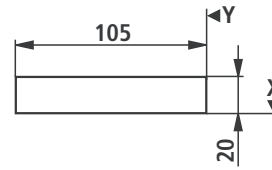


IH15EB-1X/SP^{-V}_{-M}

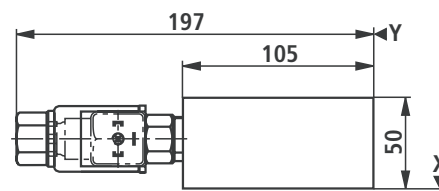


IH15EB-1X/SP^{-N}..._{-P}...

Unit dimensions



Dim. Z = 70 mm

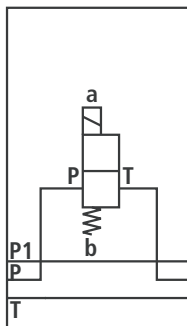


Module P with P1 port, type „SPP1“

Symbol

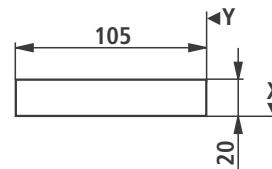


IH15EB-1X/SPP1^{-V}_{-M}

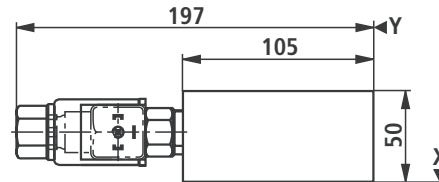


IH15EB-1X/SPP1^{-N}..._{-P}...

Unit dimensions



Dim. Z = 70 mm



Directional/poppet valve module, types „W“, „S“

Material No.	Component description	Type code
	Control module P	IH15EB-1X/SP- <input type="text"/> ²⁶
R904101760		IH15EB-1X/SP/V

Material No.	Component description	Type code
	Control module P	IH15EB-1X/SP- <input type="text"/> ⁴ <input type="text"/> ⁸ / <input type="text"/> ²⁶
R904101795		IH15EB-1X/SP-NG24/V
R904101898		IH15EB-1X/SP-PG24/V

Material No.	Component description	Type code
	Control module P with P1 port	IH15EB-1X/SPP1- <input type="text"/> ²⁶
R901070019		IH15EB-1X/SPP1/V

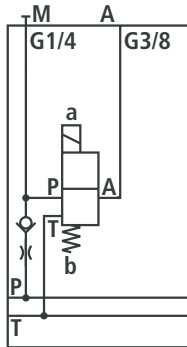
Material No.	Component description	Type code
	Control module P with P1 port	IH15EB-1X/SPP1- <input type="text"/> ⁴ <input type="text"/> ⁸ / <input type="text"/> ²⁶
R904101899		IH15EB-1X/SPP1-NG24/V
R904101900		IH15EB-1X/SPP1-PG24/V

<input type="text"/> ⁴	2 / 2 poppet valve code	Normally closed Normally open	= N = P
<input type="text"/> ⁸	Poppet valve solenoid voltage	Voltage	24 V DC = G24
<input type="text"/> ²⁶	Seal	Seal material Seal material	FKM NBR = V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

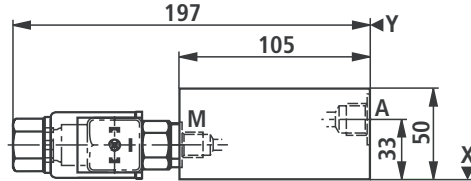
Module P - A, type „SPA3“

Symbol



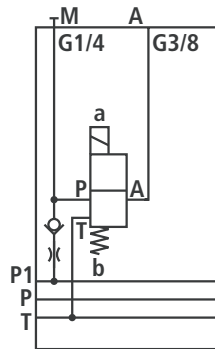
Unit dimensions

Dim. Z = 70 mm



Module P - A with P1 port, type „SPA3P1“

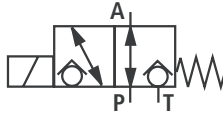
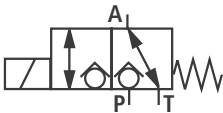
Symbol



Material No.	Component description	Type code
	Control module P - A	IH15EB-1X/SPA3- 5 14 8 27 26 □ / □ □ / □ / □
R901019899		IH15EB-1X/SPA3-C/MG24/V
R904101901		IH15EB-1X/SPA3-C/OG24/V
R901070054		IH15EB-1X/SPA3-U/MG24/V
R904101902		IH15EB-1X/SPA3-U/OG24/V

Material No.	Component description	Type code
	Control module P - A with P1 port	IH15EB-1X/SPA3P1- 5 14 8 27 26 □ / □ □ / □ / □
R901070056		IH15EB-1X/SPA3P1-C/MG24/V
R901070058		IH15EB-1X/SPA3P1-C/OG24/V
R901070059		IH15EB-1X/SPA3P1-U/MG24/V
R901070060		IH15EB-1X/SPA3P1-U/OG24/V

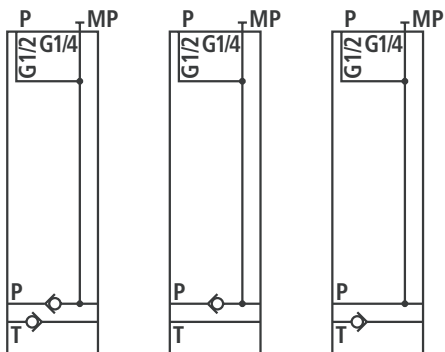
Directional/poppet valve module, types „W“, „S“

5	3 / 2 poppet valve code			= U
				= C
8	Poppet valve solenoid voltage	Voltage	24 V DC	= G24
14	Pressure monitoring	With test point Without pressure monitoring		= M = O
26	Seal	Seal material Seal material	FKM NBR	= V = M
27	Throttle	Without throttle Throttle diameter Throttle diameter	Ø 1,0 mm Ø 2,5 mm	= No code = B10 = B25

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

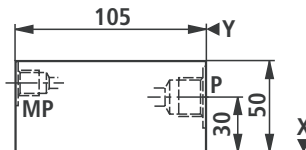
Module with check valve, type „SR“

Symbol



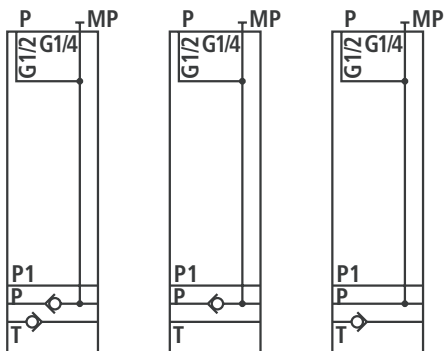
Unit dimensions

Dim. Z = 70 mm



Module with check valve and P1 port, type „SRP1“

Symbol



Material No.	Component description	Type code
	Control module with check valve	IH15EB-1X/SR- <input type="text" value="21"/> / <input type="text" value="14"/> / <input type="text" value="26"/>
R901070301		IH15EB-1X/SR-PT/M/V
R904101888		IH15EB-1X/SR-PT/O/V
R901065236		IH15EB-1X/SR-P/M/V
R904101558		IH15EB-1X/SR-P/O/V
R901070303		IH15EB-1X/SR-T/M/V
R904101596		IH15EB-1X/SR-T/O/V

Material No.	Component description	Type code
	Control module with check valve and P1 port	IH15EB-1X/SRP1- <input type="text" value="21"/> / <input type="text" value="14"/> / <input type="text" value="26"/>
R901070304		IH15EB-1X/SRP1-PT/M/V
R904101892		IH15EB-1X/SRP1-PT/O/V
R901070305		IH15EB-1X/SRP1-P/M/V
R904101889		IH15EB-1X/SRP1-P/O/V
R901070306		IH15EB-1X/SRP1-T/M/V
R904101890		IH15EB-1X/SRP1-T/O/V

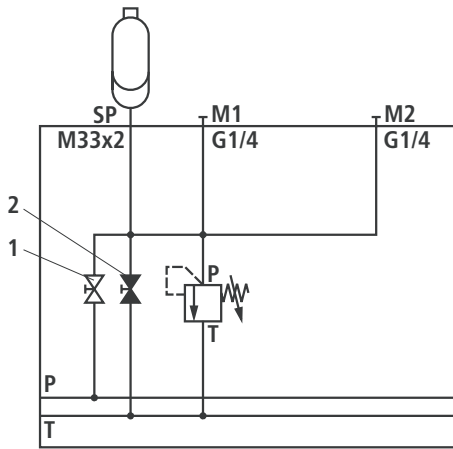
Directional/poppet valve module, types „W“, „S“

14 <input type="checkbox"/>	Pressure monitoring	With test point Without pressure monitoring	= M = O
21 <input type="checkbox"/>	Check valve	Without check valve In port P In port T In ports P and T	= No code = P = T = PT
26 <input type="checkbox"/>	Seal	Seal material Seal material	FKM NBR = V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

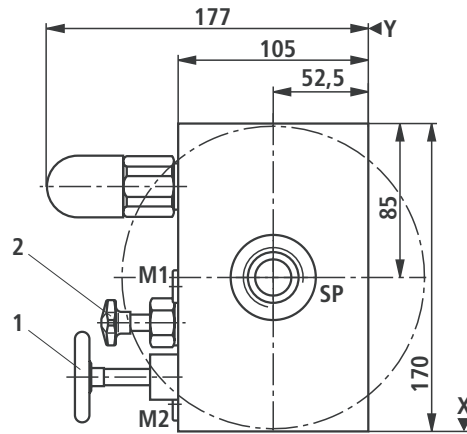
Segment module with accumulator safety block, type „ZSSB“

Symbol



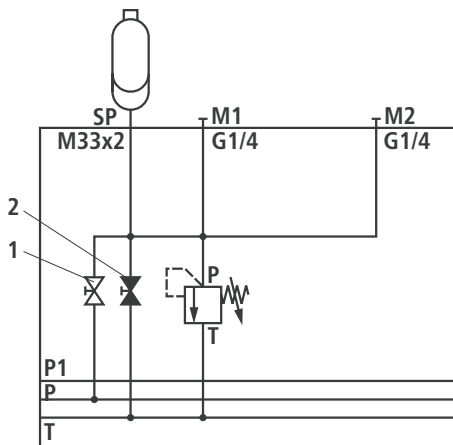
Unit dimensions

Dim. Z = max 295 mm



Segment module with accumulator safety block and P1 port, type „ZSSBP1“

Symbol



Material No.	Component description	Type code
	Segment module with accumulator safety block	IH15EB-1X/ZSSB- <input type="text"/> ¹ <input type="text"/> ³ / <input type="text"/> ₃₁ / <input type="text"/> ₁₄ <input type="text"/> ₈ / <input type="text"/> ₁₈ / <input type="text"/> ₂₆
R904101904		IH15EB-1X/ZSSB-S140E/E/MG24/1,40/V
R904101903		IH15EB-1X/ZSSB-S140E/M/M/1,40/V
R904102293		IH15EB-1X/ZSSB-S140E/M/M/2,00/V

Material No.	Component description	Type code
	Segment module with accumulator safety block and P1 port	IH15EB-1X/ZSSBP1- <input type="text"/> ¹ <input type="text"/> ³ / <input type="text"/> ₃₁ / <input type="text"/> ₁₄ <input type="text"/> ₈ / <input type="text"/> ₁₈ / <input type="text"/> ₂₆
R904101906		IH15EB-1X/ZSSBP1-S140E/E/MG24/1,40/V
R904101905		IH15EB-1X/ZSSBP1-S140E/M/M/1,40/V

Directional/poppet valve module, types „W“, „S“

<input type="checkbox"/>	1 Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/>	3 Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar 100 bar 140 bar 210 bar 330 bar = 50E = 100E = 140E = 210E = 330E
Kennlinie für baumustergeprüfte Druckbegrenzungsventile Typ: DBD../..E Baumusterprüfung nach Druckgeräte-Richtlinie 97/23/EG			See page 79
<input type="checkbox"/>	8 Poppet valve solenoid voltage	Voltage	24 V DC = G24
<input type="checkbox"/>	14 Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/>	18 Membrane accumulator	Nominal flow in l	Max. pressure in bar
		0,35 0,50 0,70 0,70 1,40 1,40 2,00 2,80 3,50	210 210 210 350 140 350 350 350 350 = 0,35 = 0,50 = 0,70 = 0,70 = 1,40 = 1,40 = 2,00 = 2,80 = 3,50
	Bladder accumulator	0,50 4,00	400 330 = 0,50 = 4,00
<input type="checkbox"/>	26 Seal	Seal material Seal material	FKM NBR = V = M
<input type="checkbox"/>	31 Unloading	Manual Manual and electro-magnetic	= M = E

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

End module, type „WSE“

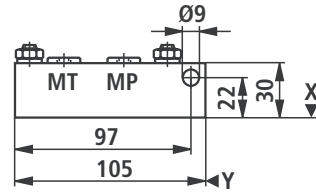
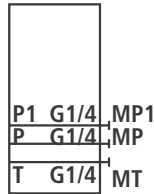
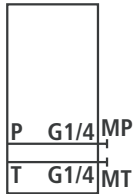
End module with P1 port, type „WSEP1“

Symbol

Symbol

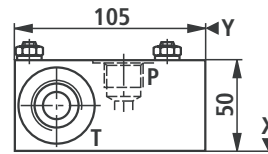
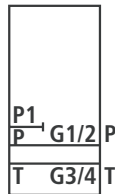
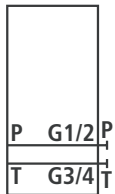
Unit dimensions

Dim. Z = 70 mm



IH15MB-1X/WSE...

IH15MB-1X/WSEP1...



IH15MB-1X/WSE-PT...

IH15MB-1X/WSEP1-PT...

Material No.	Component description	Type code
	End module	IH15MB-1X/WSE- <input type="checkbox"/> 22 / <input type="checkbox"/> 14 / <input type="checkbox"/> 26
R904101349		IH15MB-1X/WSE-M/V
R904101555		IH15MB-1X/WSE-O/V
R904101793		IH15MB-1X/WSE-PT/M/V
R904101857		IH15MB-1X/WSE-PT/O/V

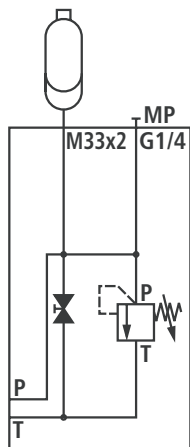
Material No.	Component description	Type code
	End module with P1 port	IH15MB-1X/WSEP1- <input type="checkbox"/> 22 / <input type="checkbox"/> 14 / <input type="checkbox"/> 26
R904101599		IH15MB-1X/WSEP1-M/V
R901067146		IH15MB-1X/WSEP1-O/V
R901070307		IH15MB-1X/WSEP1-PT/M/V
R901070308		IH15MB-1X/WSEP1-PT/O/V

<input type="checkbox"/> 14	Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> 22	Ports	Without ports P and T	= No code = PT
<input type="checkbox"/> 26	Seal	Seal material	FKM = V NBR = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

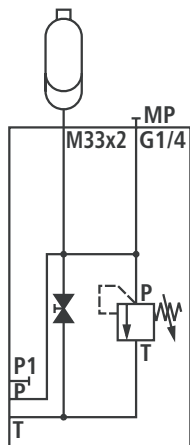
End module with pressure relief valve, accumulator and isolator valve, type „SEDBSA“

Symbol



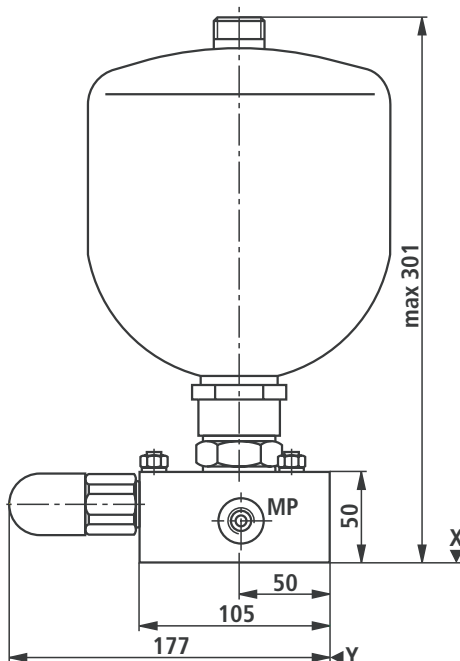
End module with pressure relief valve, accumulator, isolator valve and P1 port, type „SEDBSAP1“

Symbol



Unid dimensions

Dim. Z = max 120 mm



Material No.	Component description	Type code
	End module with pressure relief valve, accumulator and isolator valve	IH15EB-1X/SEDBSA- 1 3 14 18 26 □ □ / □ / □ / □
R904102091		IH15EB-1X/SEDBSA-S100/M/0,70/V
R904101415		IH15EB-1X/SEDBSA-S100/M/1,40/V

Material No.	Component description	Type code
	End module with pressure relief valve, accumulator, isolator valve and P1 port	IH15EB-1X/SEDBSAP1- 1 3 14 18 26 □ □ / □ / □ / □
R904101886		IH15EB-1X/SEDBSAP1-S100/M/1,40/V

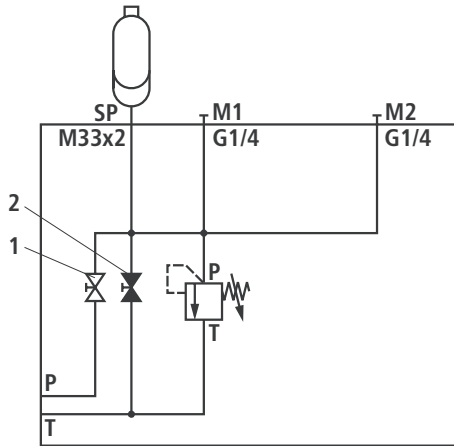
Directional/poppet valve module, types „W“, „S“

<input type="checkbox"/>	¹ Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A	
<input type="checkbox"/>	³ Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar 100 bar 140 bar 210 bar 330 bar = 50E = 100E = 140E = 210E = 330E	
Characteristic curve for design tested pressure relief valves type: DBD../.E Design tested to the pressure component directive 97/23/EC			See page 79	
<input type="checkbox"/>	¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O	
<input type="checkbox"/>	¹⁸ Membrane accumulator	Nominal flow in l	Max. pressure in bar	
		0,35	210	= 0,35
		0,50	210	= 0,50
		0,70	210	= 0,70
		0,70	350	= 0,70
		1,40	140	= 1,40
		1,40	350	= 1,40
		2,00	350	= 2,00
		2,80	350	= 2,80
		3,50	350	= 3,50
	Bladder accumulator	0,50	400	= 0,50
		4,00	330	= 4,00
<input type="checkbox"/>	²⁶ Seal	Seal material Seal material	FKM NBR	= V = M

Directional/poppet valve module, types „W“, „S“ (nominal dimensions in mm)

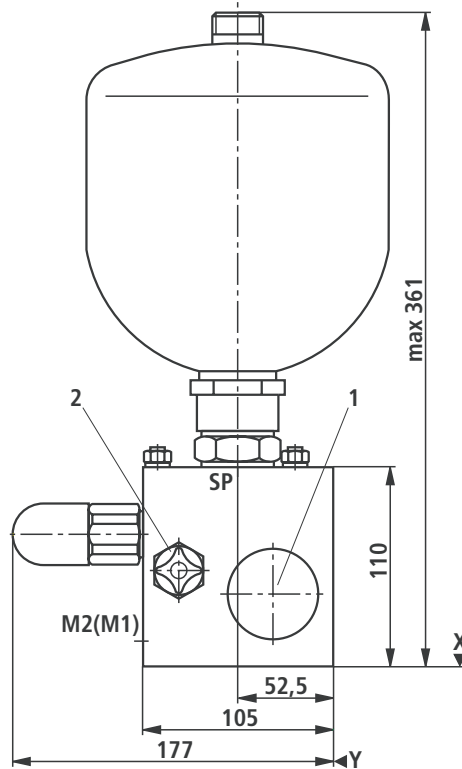
Accumulator safety module, type „SSB“

Symbol



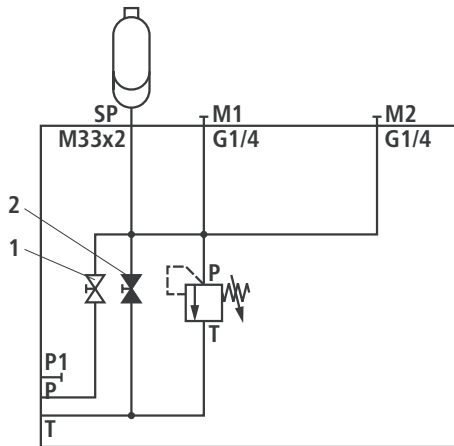
Unit dimensions

Dim. Z = 172 mm



Accumulator safety module with P1 port, type „SSBP1“

Symbol



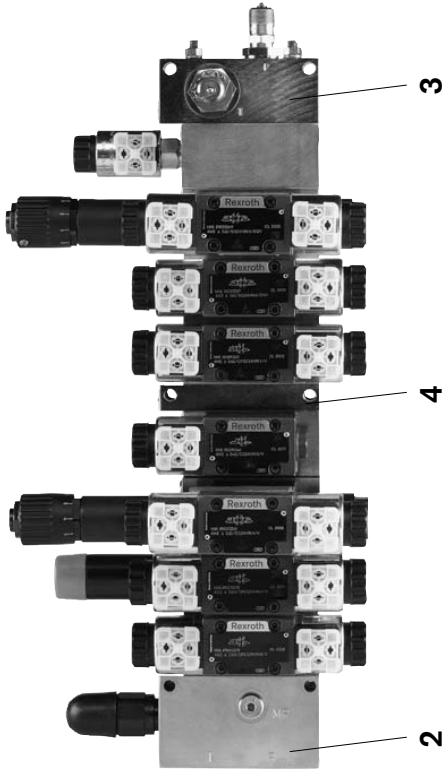
Material No.	Component description	Type code
	Accumulator safety block	IH15EB-1X/SSB- <input type="text"/> 1 <input type="text"/> 3 / <input type="text"/> 31 / <input type="text"/> 14 <input type="text"/> 8 / <input type="text"/> 18 / <input type="text"/> 26
R904101840		IH15EB-1X/SSB-S140E/E/MG24/1,40/V
R901044115		IH15EB-1X/SSB-S140E/E/OG24/1,40/V
R904101848		IH15EB-1X/SSB-S140E/M/M/1,40/V
R901066444		IH15EB-1X/SSB-S140E/M/O/1,40/V
R901039971		IH15EB-1X/SSB-S330E/M/M/0,50/V
R901070594		IH15EB-1X/SSB-S330E/M/O/0,50/V

Directional/poppet valve module, types „W“, „S“

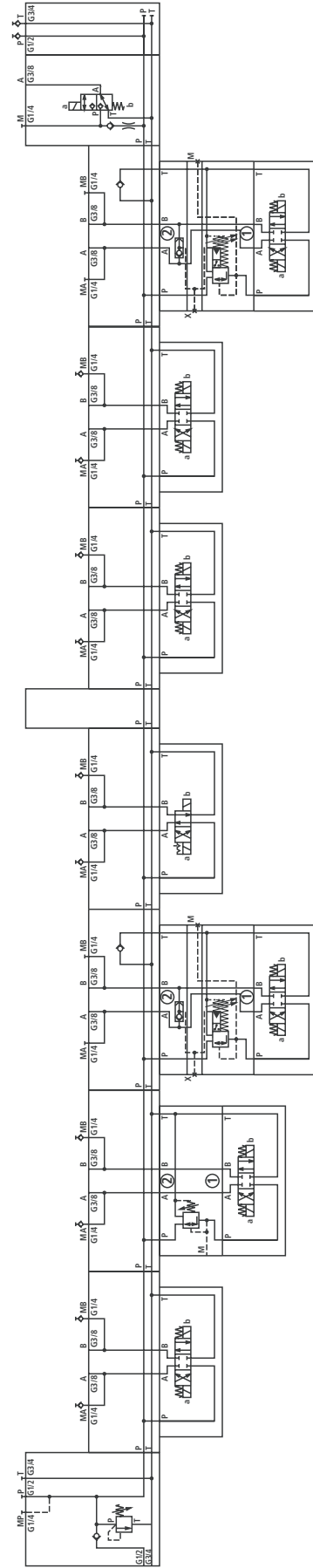
Material No.	Component description	Type code
	Accumulator safety block with P1 port	IH15EB-1X/SSBP1- <div style="display: flex; justify-content: space-around; font-size: small;"> 1 3 31 14 8 18 26 </div> <div style="display: flex; justify-content: space-around; font-size: x-small;"> <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> </div>
R904101846		IH15EB-1X/SSBP1-S140E/E/MG24/1,40/V
R901070596		IH15EB-1X/SSBP1-S140E/E/OG24/1,40/V
R904101845		IH15EB-1X/SSBP1-S140E/M/M/1,40/V
R901070597		IH15EB-1X/SSBP1-S140E/M/O/1,40/V

1	<input type="checkbox"/> Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A																														
3	<input type="checkbox"/> Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Max. settable pressure up to</td> <td>50 bar</td> <td>= 50E</td> </tr> <tr> <td>Max. settable pressure up to</td> <td>100 bar</td> <td>= 100E</td> </tr> <tr> <td>Max. settable pressure up to</td> <td>140 bar</td> <td>= 140E</td> </tr> <tr> <td>Max. settable pressure up to</td> <td>210 bar</td> <td>= 210E</td> </tr> <tr> <td>Max. settable pressure up to</td> <td>330 bar</td> <td>= 330E</td> </tr> </tbody> </table>	Max. settable pressure up to	50 bar	= 50E	Max. settable pressure up to	100 bar	= 100E	Max. settable pressure up to	140 bar	= 140E	Max. settable pressure up to	210 bar	= 210E	Max. settable pressure up to	330 bar	= 330E																
Max. settable pressure up to	50 bar	= 50E																															
Max. settable pressure up to	100 bar	= 100E																															
Max. settable pressure up to	140 bar	= 140E																															
Max. settable pressure up to	210 bar	= 210E																															
Max. settable pressure up to	330 bar	= 330E																															
Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC			See page 79																														
8	<input type="checkbox"/> Poppet valve solenoid voltage	Voltage	24 V DC = G24																														
14	<input type="checkbox"/> Pressure monitoring	With test point Without pressure monitoring	= M = O																														
18	<input type="checkbox"/> Membrane accumulator	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Nominal flow in l</th> <th>Max. pressure in bar</th> <th></th> </tr> </thead> <tbody> <tr><td>0,35</td><td>210</td><td>= 0,35</td></tr> <tr><td>0,50</td><td>210</td><td>= 0,50</td></tr> <tr><td>0,70</td><td>210</td><td>= 0,70</td></tr> <tr><td>0,70</td><td>350</td><td>= 0,70</td></tr> <tr><td>1,40</td><td>140</td><td>= 1,40</td></tr> <tr><td>1,40</td><td>350</td><td>= 1,40</td></tr> <tr><td>2,00</td><td>350</td><td>= 2,00</td></tr> <tr><td>2,80</td><td>350</td><td>= 2,80</td></tr> <tr><td>3,50</td><td>350</td><td>= 3,50</td></tr> </tbody> </table>	Nominal flow in l	Max. pressure in bar		0,35	210	= 0,35	0,50	210	= 0,50	0,70	210	= 0,70	0,70	350	= 0,70	1,40	140	= 1,40	1,40	350	= 1,40	2,00	350	= 2,00	2,80	350	= 2,80	3,50	350	= 3,50	
Nominal flow in l	Max. pressure in bar																																
0,35	210	= 0,35																															
0,50	210	= 0,50																															
0,70	210	= 0,70																															
0,70	350	= 0,70																															
1,40	140	= 1,40																															
1,40	350	= 1,40																															
2,00	350	= 2,00																															
2,80	350	= 2,80																															
3,50	350	= 3,50																															
	Bladder accumulator	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>0,50</td> <td>400</td> <td>= 0,50</td> </tr> <tr> <td>4,00</td> <td>330</td> <td>= 4,00</td> </tr> </tbody> </table>	0,50	400	= 0,50	4,00	330	= 4,00																									
0,50	400	= 0,50																															
4,00	330	= 4,00																															
26	<input type="checkbox"/> Seal	Seal material Seal material	FKM = V NBR = M																														
31	<input type="checkbox"/> Unloading	Manual Manual and electro-magnetic	= M = E																														

Module for external mounting: Design possibilities with application examples



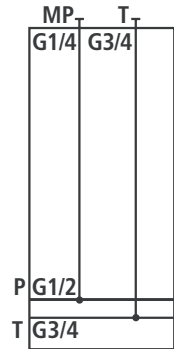
- 2 Connection module with pressure relief valve type ADB (see page 60)
 - 3 End module type E (see page 65)
 - 4 Segment modules types Z or ZPT (see pages 61 and 62). The module segment can also be combined with the connection module pos. 1 type A or pos. 2 type ADB and with the end module pos. 3.
- The overall length is obtained by adding together the "X" dimension of the directional/poppet valve modules (see pages 13 to 55)



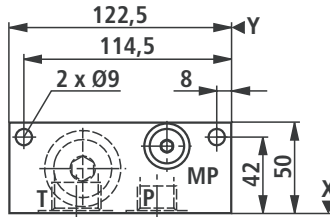
Module for external mounting (nominal dimensions in mm)

Connection module, type „A“

Symbol



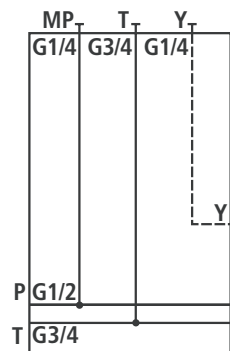
Unit dimensions



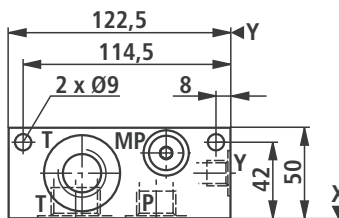
Dim. Z = 70 mm

Connection module with Y port, type „AY“

Symbol



Unit dimensions



Dim. Z = 70 mm

Material No.	Component description	Type code
	Connection module	IH15MB-1X/A- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101350		IH15MB-1X/A-M/V
R904101514		IH15MB-1X/A-O/V

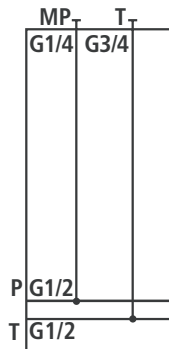
Material No.	Component description	Type code
	Connection module with Y port	IH15MB-1X/AY- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901066327		IH15MB-1X/AY-M/V
R904101841		IH15MB-1X/AY-O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point		= M
	Without pressure monitoring		= O
<input type="checkbox"/> ²⁶ Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Module for external mounting (nomial dimensions in mm)

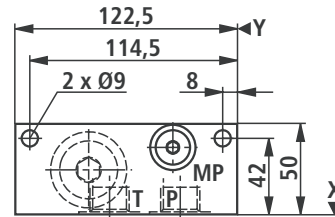
Connection module with through holes,
type „AD“

Symbol



Unit dimensions

Dim. Z = 70 mm



Material No.	Component description	Type code
	Connection module with through holes	IH15MB-1X/AD- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101797		IH15MB-1X/AD-M/V
R901066320		IH15MB-1X/AD-O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M = O
<input type="checkbox"/> ²⁶ Seal	Seal material Seal material	FKM NBR = V = M

Module for external mounting (nominal dimensions in mm)

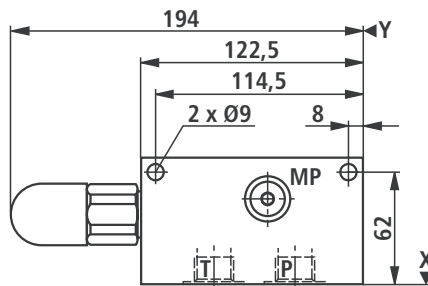
Connection module with pressure relief valve, type „ADB“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Connection module with pressure relief valve	IH15EB-1X/ADB- <input type="checkbox"/> <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/>
R901069495		IH15EB-1X/ADB-A200/M/V
R901069497		IH15EB-1X/ADB-A200/O/V
R901069494		IH15EB-1X/ADB-H200/M/V
R901069496		IH15EB-1X/ADB-H200/O/V
R901069238		IH15EB-1X/ADB-S200/M/V
R901069240		IH15EB-1X/ADB-S200/O/V

<input type="checkbox"/> 1	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
<input type="checkbox"/> 2	Pressure relief valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	25 bar = 25 50 bar = 50 100 bar = 100 200 bar = 200 315 bar = 315 400 bar = 400

Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive)
Further pressure stages on request!

		Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar = 50E 100 bar = 100E 140 bar = 140E 210 bar = 210E 330 bar = 330E
--	--	--	--

Characteristic curve for design tested pressure relief valves type: DBD../..E
Design tested to the pressure component directive 97/23/EG

See page 78

<input type="checkbox"/> 14	Pressure monitoring	With test point With pressure monitoring	= M = O
<input type="checkbox"/> 26	Seal	Seal material Seal material	FKM = V NBR = M

Module for external mounting (nominal dimensions in mm)

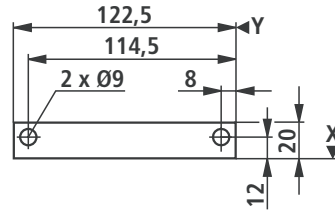
Segment module, type „Z“

Symbol



Unit dimensions

Dim. Z = 70 mm



Segment module with P1port, type „ZP1“

Symbol



Material No.	Component description	Type code
	Segment module	IH15MB-1X/Z- <input type="text" value="26"/>
R904101642		IH15MB-1X/Z-V

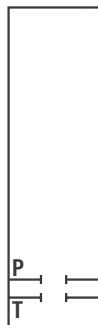
Material No.	Component description	Type code
	Segment module with P1 port	IH15MB-1X/ZP1-V <input type="text" value="26"/>
R904101834		IH15MB-1X/ZP1-V

<input type="text" value="26"/> Seal	Seal material seal material	FKM NBR	= V = M
--------------------------------------	--------------------------------	------------	------------

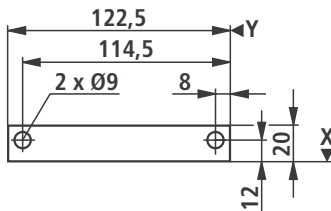
Module for external mounting (nominal dimensions in mm)

Segment module with PT interruption, type „ZPT“

Symbol



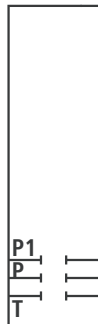
Unit dimensions



Dim. Z = 70 mm

Segment module with PTP1 interruption, type „ZPTP1“

Symbol



Material No.	Component description	Type code
	Segment module with PT interruption	IH15MB-1X/ZPT- <input type="text" value="26"/>
R901072044		IH15MB-1X/ZPT-V

Material No.	Component description	Type code
	Segment module with PTP1 interruption	IH15MB-1X/ZPTP1- <input type="text" value="26"/>
R901072043		IH15MB-1X/ZPTP1-V

<input type="text" value="26"/> Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Module for external mounting (nominal dimensions in mm)

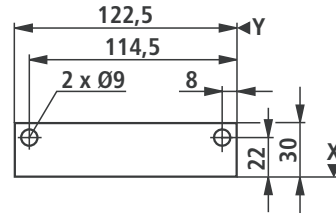
Segment module with fixing threads for stud, type „ZG“

Symbol



Unit dimensions

Dim. Z = 70 mm



Segment module with fixing threads for studs and P1 port, type „ZGP1“

Symbol



Material No.	Component description	Type code
	Segment module with fixing threads for studs	IH15MB-1X/ZG- <input type="text" value="26"/>
R904101503		IH15MB-1X/ZG-V

Material No.	Component description	Type code
	Segment module with fixing threads for studs and P1 port	IH15MB-1X/ZGP1- <input type="text" value="26"/>
R904101831		IH15MB-1X/ZGP1-V

<input type="text" value="26"/> Seal	Seal material	FKM	= V
	Seal material	NBR	= M

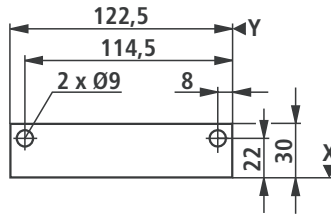
Module for external mounting (nominal dimensions in mm)

Segment module with fixing threads
for studs with PT interruption, type „ZGPT“

Symbol



Unit dimensions



Dim. Z = 70 mm

Segment module with fixing threads
for studs with PTP1 interruption, type „ZGPTP1“

Symbol



Material No.	Component description	Type code
	Segment module with PT interruption and fixing threads for studs	IH15MB-1X/ZGPT- <input type="text" value="26"/>
R904101761		IH15MB-1X/ZGPT-V

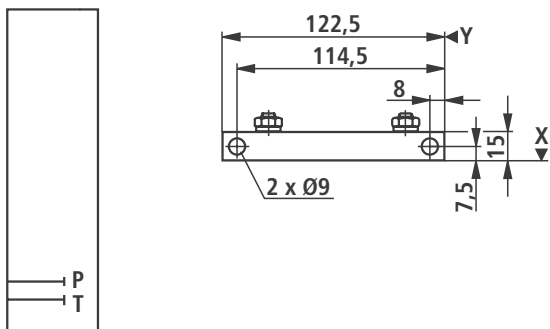
Material No.	Component description	Type code
	Segment module with PTP1 interruption and fixing threads for studs	IH15MB-1X/ZGPTP1- <input type="text" value="26"/>
R904101832		IH15MB-1X/ZGPTP1-V

<input type="text" value="26"/>	Seal	Seal material	FKM	= V
		Seal material	NBR	= M

Module for external mounting (nominal dimensions in mm)

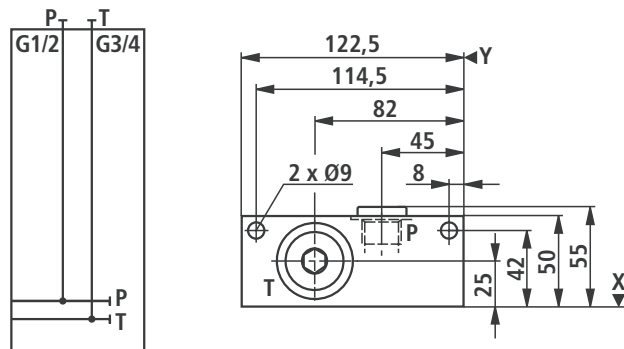
End module, type „E“

Symbol Unit dimensions Dim. Z = 70 mm



with port P and T

Symbol Unit dimensions Dim. Z = 70 mm

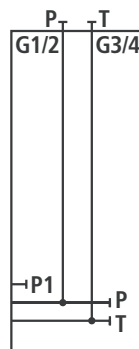


End module with P1 port, type „EP1“

Symbol



Symbol



Material No.	Component description	Type code
	End module ¹	IH15MB-1X/E- <input type="checkbox"/> ²² / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101351		IH15MB-1X/E-PT/M/V
R904101516		IH15MB-1X/E-PT/O/V
R901136829		IH15MB-1X/E-V

Material No.	Component description	Type code
	End module ¹ with P1 port	IH15MB-1X/EP1- <input type="checkbox"/> ²² / <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101847		IH15MB-1X/EP1-PT/M/V
R904101849		IH15MB-1X/EP1-PT/O/V
R901137570		IH15MB-1X/EP1-V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point Without pressure monitoring	= M ¹⁾ = O ¹⁾
<input type="checkbox"/> ²² Ports	without ports with port P and T	= No code = PT
<input type="checkbox"/> ²⁶ Seal	Seal material	FKM = V NBR = M

¹⁾ Indication required only, if the module is fitted with P and T ports.

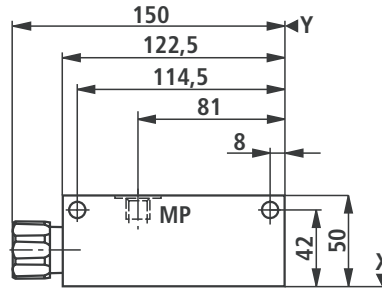
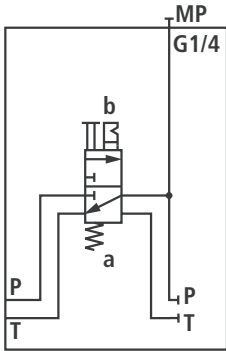
Module for external mounting (nominal dimensions in mm)

End module with pressure gauge-Isolator valve, type „EAF6“

Symbol

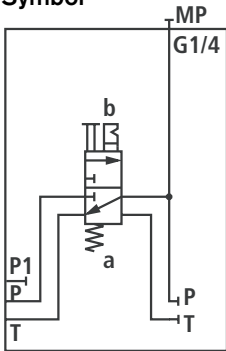
Unit dimensions

Dim. Z = 70 mm



End module with pressure gauge-Isolator valve and P1 port, type „EAF6P1“

Symbol



Material No.	Component description	Type code
	End module with pressure gauge-Isolator valve	IH15MB-1X/EAF6- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ¹⁵ / <input type="checkbox"/> ²⁶
R901097434		IH15MB-1X/EAF6-D/250/V

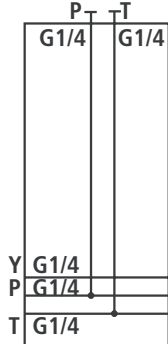
Material No.	Component description	Type code
	End module with pressure gauge-Isolator valve and P1 - port	IH15MB-1X/EAF6P1- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ¹⁵ / <input type="checkbox"/> ²⁶
R901098795		IH15MB-1X/EAF6P1-D/250/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	with measuring connection without Pressure monitoring	= M = O
<input type="checkbox"/> ¹⁵ Max. Pressure gauge indicating range	without Pressure monitoring Indication range 60 bar Indication range 100 bar Indication range 250 bar Indication range 400 bar	= No code = 60 = 100 = 250 = 400
<input type="checkbox"/> ²⁶ Seal	Seal material	FKM = V NBR = M

Reducer module, type „R“ (nominal dimensions in mm)

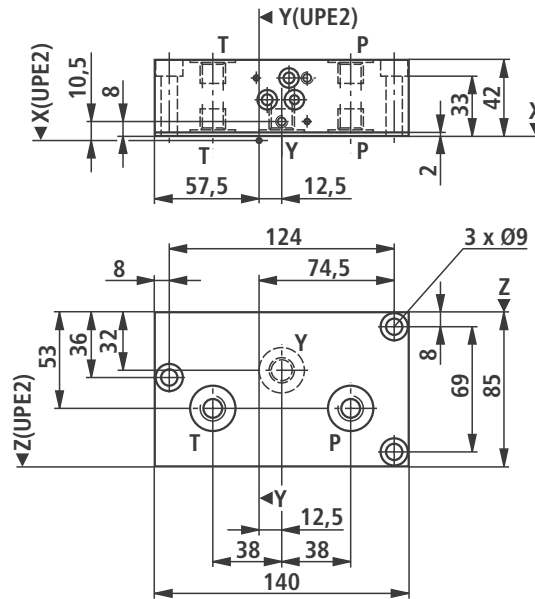
Reservoir connection module with reduction from IH15B to IH15A, type „RBAIH15A“

Symbol



Unit dimensions

Dim. Z = 85 mm



Material No.	Component description	Type code
	Reservoir connection module with reduction from IH15B to IH15A	IH15MB-1X/RBAIH15A- <input type="text" value="26"/>
R904101835		IH15MB-1X/RBAIH15A-V

<input type="text" value="26"/> Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Reducer module, type „R“ (nominal dimensions in mm)

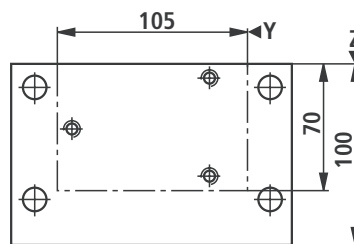
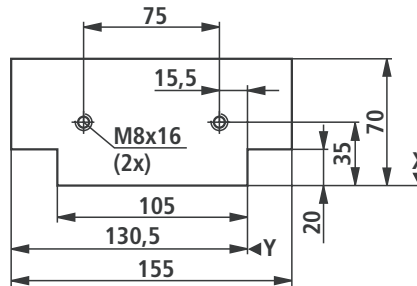
Reducer module IH15B to IH20B (left), type „RIH20BL“

Symbol



Unit dimensions

Dim. Z = 100 mm



Material No.	Component description	Type code
	Reducer module IH15B to IH20B (left)	IH15MB-1X/RIH20BL- ²⁷ / ²⁶
R904101839		IH15MB-1X/RIH20BL-V

²⁶ Seal	Seal material	FKM	= V
	Seal material	NBR	= M
²⁷ Throttle	Without throttle		= No code
	Throttle diameter	Ø 1,0 mm	= B10
	Throttle diameter	Ø 2,5 mm	= B25

Reducer module, type „R“ (nominal dimensions in mm)

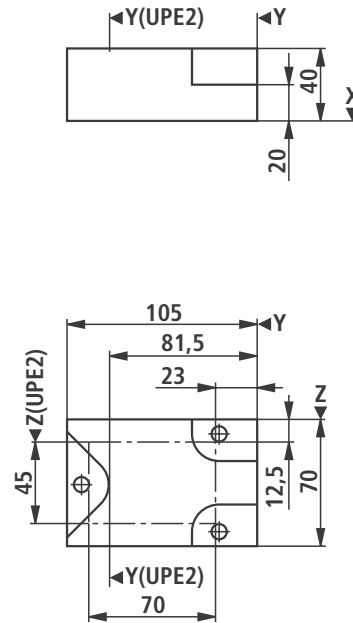
Reducer module IH15B to IH15A (right),
type „RIH15AR“

Symbol



Unit dimensions

Dim. Z = 70 mm



Material No.	Component description	Type code
	Reducer module IH15B to IH15A (right)	IH15MB-1X/RIH15AR- <input type="text" value="27"/> / <input type="text" value="26"/>
R904101836		IH15MB-1X/RIH15AR-V

<input type="text" value="26"/>	Seal	Seal material	FKM	= V
		Seal material	NBR	= M
<input type="text" value="27"/>	Throttle	Without throttle		= No code
		Throttle diameter	Ø 1,0 mm	= B10
		Throttle diameter	Ø 2,5 mm	= B25

Reducer module, type „R“ (nominal dimensions in mm)

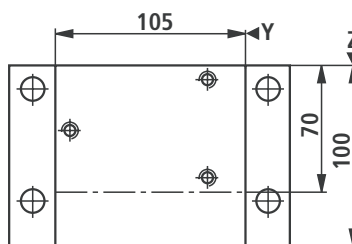
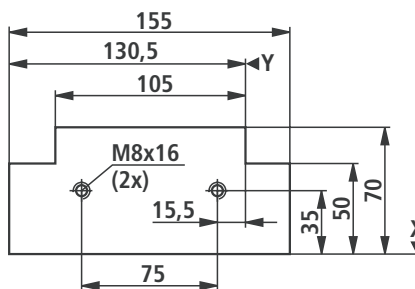
Reducer module IH15B to IH20B (right), type „RIH20BR“

Symbol



Unit dimensions

Dim. Z = 100 mm



Material No.	Component description	Type code
	Reducer module IH15B to IH20B (right)	IH15MB-1X/RIH20BR- <input type="text" value="27"/> / <input type="text" value="26"/>
R904101837		IH15MB-1X/RIH20BR-V

<input type="text" value="26"/>	Seal	Seal material	FKM	= V
		Seal material	NBR	= M
<input type="text" value="27"/>	Throttle	Without throttle		= No code
		Throttle diameter	Ø 1,0 mm	= B10
		Throttle diameter	Ø 2,5 mm	= B25

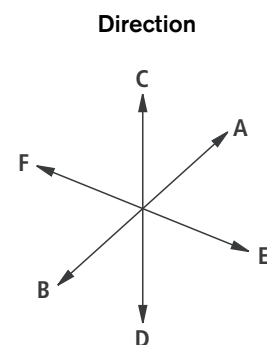
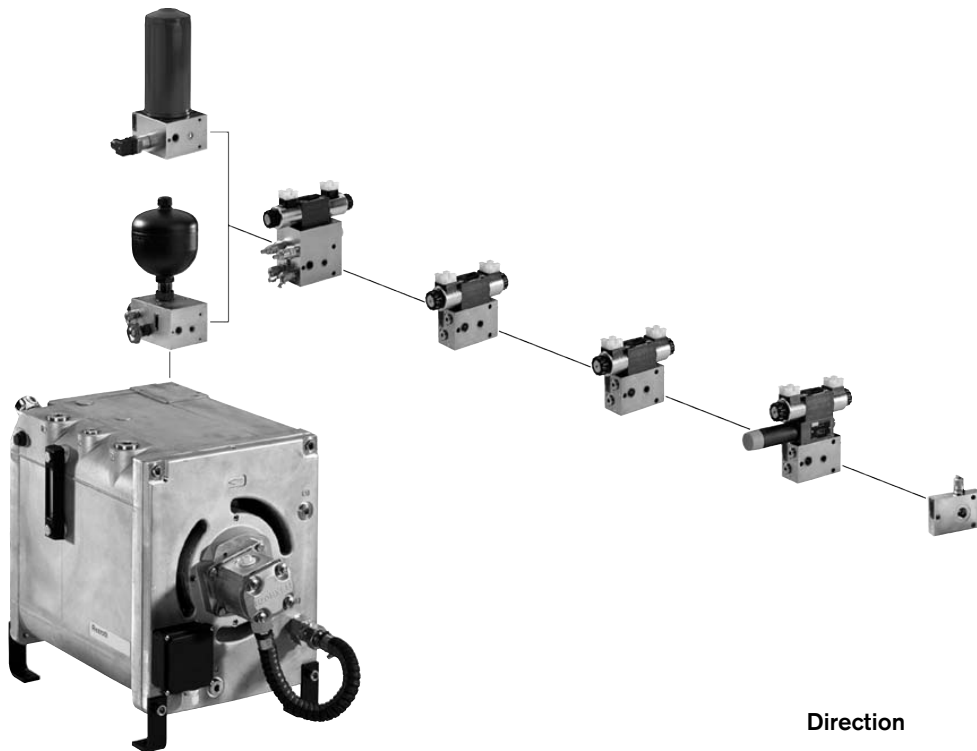
Module for the UPE5 drive module, type „UPE5“: Description, general

The control modules for the UPE5 drive module are used to create complete hydraulic controls. They can be individually designed and assembled.

The filter **or** accumulator safety modules form the connection between the hydraulic control and port K2 of the drive module (also see RE 51145).

The IH15B control modules with the connection modules can be built onto the filter **or** accumulator safety module.

Module for the UPE5 drive module, type „UPE5“: Design possibilities



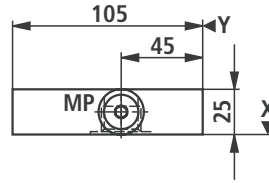
Module for the UPE5 drive module, type „UPE5“ (nominal dimensions in mm)

Connection module, type „UPE5A“

Symbol

Unit dimensions

Dim. Z = 70 mm



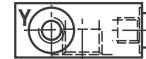
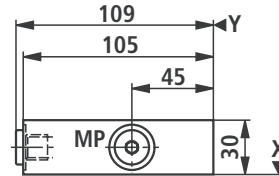
Material No.	Component description	Type code
	Connection module	IH15MB-1X/UPE5A- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101342		IH15MB-1X/UPE5A-M/V
R901070572		IH15MB-1X/UPE5A-O/V

Connection module with Y port, type „UPE5AY“

Symbol

Unit dimensions

Dim. Z = 70 mm



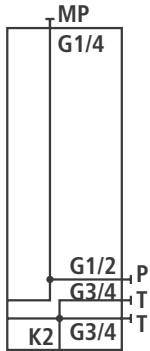
Material No.	Component description	Type code
	Connection module with Y port	IH15MB-1X/UPE5AY- <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R904101850		IH15MB-1X/UPE5AY-M/V
R901070573		IH15MB-1X/UPE5AY-O/V

<input type="checkbox"/> ¹⁴ Pressure monitoring	With test point		= M
	Without pressure monitoring		= O
<input type="checkbox"/> ²⁶ Seal	Seal material	FKM	= V
	Seal material	NBR	= M

Module for the UPE5 drive module, type „UPE5“ (nominal dimensions in mm)

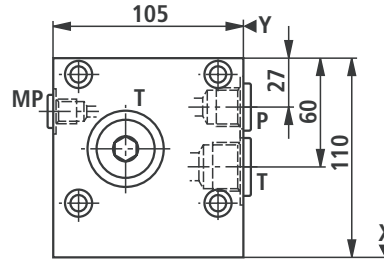
Reservoir connection module, type „UPE5BA“

Symbol



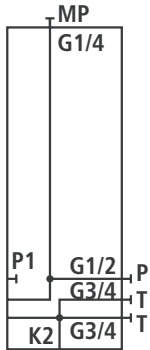
Unit dimensions

Dim. Z = 70 mm



Reservoir connection module with P1 port, type „UPE5BAP1“

Symbol



Material No.	Component description	Type code
	Reservoir connection module, type „UPE5BAP1“	IH15MB-1X/UPE5BA-PT/ <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901125941		IH15MB-1X/UPE5BA-PT/M/V
R901124952		IH15MB-1X/UPE5BA-PT/O/V

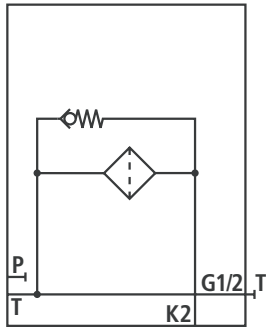
Material No.	Component description	Type code
	Reservoir connection module with P1 port, type „UPE5BAP1“	IH15MB-1X/UPE5BAP1-PT/ <input type="checkbox"/> ¹⁴ / <input type="checkbox"/> ²⁶
R901128499		IH15MB-1X/UPE5BAP1-PT/M/V
R901128498		IH15MB-1X/UPE5BAP1-PT/O/V

<input type="checkbox"/> ¹⁴	Pressure monitoring	With test point	= M
		Without pressure monitoring	= O
<input type="checkbox"/> ²⁶	Seal	Seal material	FKM = V
		Seal material	NBR = M

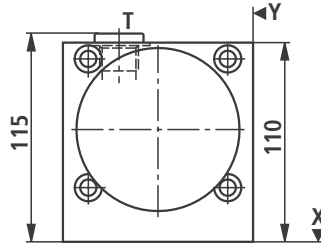
Module for the UPE5 drive module, type „UPE5“ (nominal dimensions in mm)

Filter module, types „UPE5F30“, „UPE5F60“
 ($p_{max} = 7 \text{ bar}$)

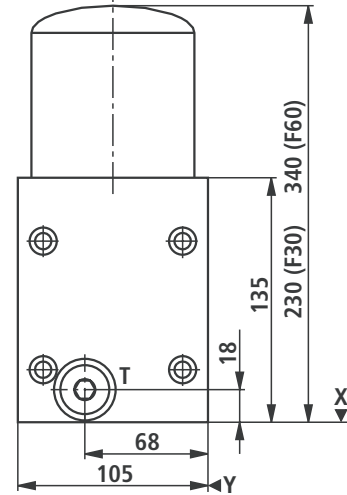
Symbol



Unit dimensions



Dim. Z = 165 mm UPE5F30 orientation
 Dim. Z = 275 mm UPE5F60 orientation
 Dim. Z = 70 mm orientation „F“

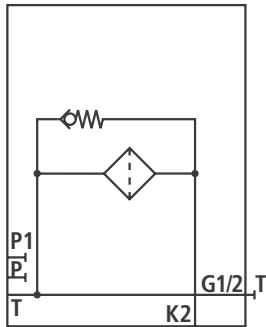


Filter orientation version „C“

Filter orientation version „F“

Filter module with P1 port, type „UPE5F30P1“, „UPE5F60P1“ ($p_{max} = 7 \text{ bar}$)

Symbol



Material No.	Component description	Type code
	Filter module	IH15EB-1X/UPE5F30- <input type="text" value="30"/> <input type="text" value="19"/> / <input type="text" value="20"/> / <input type="text" value="26"/>
R901070574		IH15EB-1X/UPE5F30-C/10/A/V
R904101860		IH15EB-1X/UPE5F30-C/10/E/V
R901070575		IH15EB-1X/UPE5F30-C/10/O/V

Material No.	Component description	Type code
	Filter module	IH15EB-1X/UPE5F60- <input type="text" value="30"/> <input type="text" value="19"/> / <input type="text" value="20"/> / <input type="text" value="26"/>
R901070576		IH15EB-1X/UPE5F60-C/10/A/V
R904101346		IH15EB-1X/UPE5F60-C/10/E/V
R901070577		IH15EB-1X/UPE5F60-C/10/O/V

Module for the UPE5 drive module, type „UPE5“

Material No.	Component description	Type code
	Filter module with P1 port	IH15EB-1X/UPE5F30P1- <input type="checkbox"/> ³⁰ <input type="checkbox"/> ¹⁹ / <input type="checkbox"/> ²⁰ / <input type="checkbox"/> ²⁶
R901070579		IH15EB-1X/UPE5F30P1-C/10/A/V
R904101863		IH15EB-1X/UPE5F30P1-C/10/E/V
R901070580		IH15EB-1X/UPE5F30P1-C/10/O/V

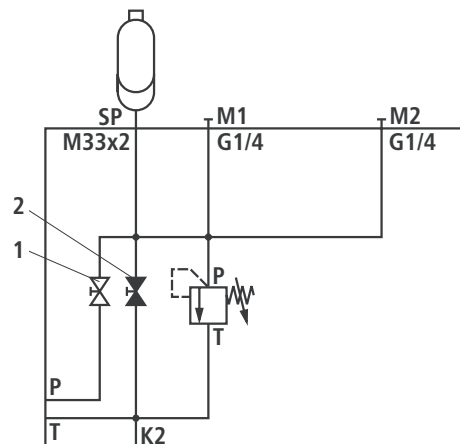
Material No.	Component description	Type code
	Filter module with P1 port	IH15EB-1X/UPE5F60P1- <input type="checkbox"/> ³⁰ <input type="checkbox"/> ¹⁹ / <input type="checkbox"/> ²⁰ / <input type="checkbox"/> ²⁶
R901070581		IH15EB-1X/UPE5F60P1-C/10/A/V
R904101862		IH15EB-1X/UPE5F60P1-C/10/E/V
R901070582		IH15EB-1X/UPE5F60P1-C/10/O/V

<input type="checkbox"/> ¹⁹	Filter rating	06 µm 10 µm	= 06 = 10
<input type="checkbox"/> ²⁰	Clogging indicator	Without clogging indicator Visual clogging indicator Electrical clogging indicator	= A = O = E
<input type="checkbox"/> ²⁶	Seal	Seal material Seal material	FKM = V NBR = M
<input type="checkbox"/> ³⁰	Filter orientation	Direction C Direction F	= C = F

Module for the UPE5 drive module, type „UPE5“ (nominal dimensions in mm)

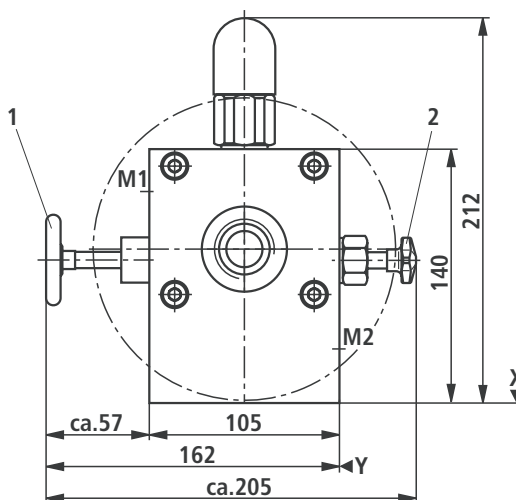
Accumulator safety module, type „UPE5SSB“

Symbol



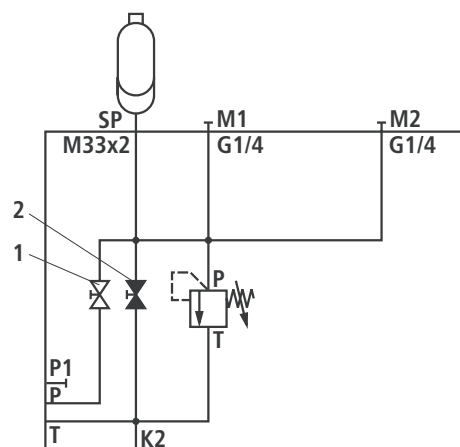
Unit dimensions

Dim. Z = max 336 mm



Accumulator safety module with P1 port, type „UPE5SSBP1“

Symbol



Material No.	Component description	Type code
	Accumulator safety module	IH15EB-1X/UPE5SSB- <input type="text"/> <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> / <input type="text"/>
R904101864		IH15EB-1X/UPE5SSB-S140E/E/MG24/1,40/V
R901070583		IH15EB-1X/UPE5SSB-S140E/E/OG24/1,40/V
R904101791		IH15EB-1X/UPE5SSB-S140E/M/M/1,40/V
R901070584		IH15EB-1X/UPE5SSB-S140E/M/O/1,40/V

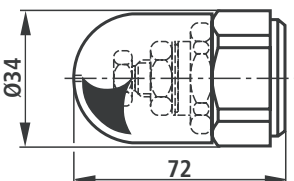
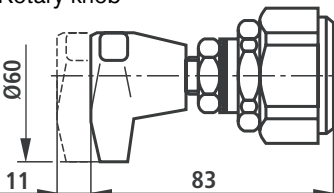
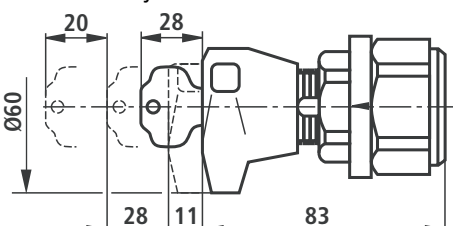
Module for the UPE5 drive module, type „UPE5“

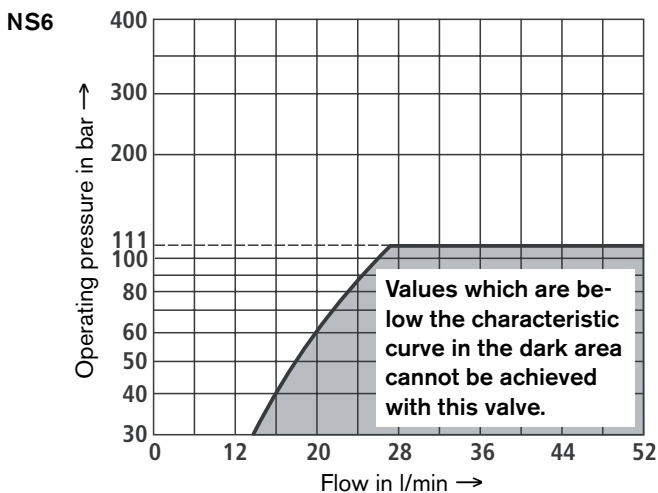
Material No.	Component description	Type code
	Accumulator safety module with P1 port	IH15EB-1X/UPE5SSBP1- <div style="display: flex; justify-content: space-around; font-size: small;"> 1 3 31 14 8 18 26 </div> <div style="display: flex; justify-content: space-around; border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div>
R904101866		IH15EB-1X/UPE5SSBP1-S140E/E/MG24/1,40/V
R901070586		IH15EB-1X/UPE5SSBP1-S140E/E/OG24/1,40/V
R904101865		IH15EB-1X/UPE5SSBP1-S140E/M/M/1,40/V
R901070587		IH15EB-1X/UPE5SSBP1-S140E/M/O/1,40/V

1	Pressure relief valve adjustment element	Set screw with hexagon and protective cap	= S
<input type="checkbox"/>		Rotary knob	= H
<input type="checkbox"/>		Lockable rotary knob	= A
3	Pressure stage of the design test pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!		
<input type="checkbox"/>		Max. settable pressure up to	50 bar = 50E
<input type="checkbox"/>		Max. settable pressure up to	100 bar = 100E
<input type="checkbox"/>		Max. settable pressure up to	140 bar = 140E
<input type="checkbox"/>		Max. settable pressure up to	210 bar = 210E
<input type="checkbox"/>		Max. settable pressure up to	330 bar = 330E
Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC			See page 79
8	Poppet valve solenoid voltage	Voltage	24 V DC = G24
<input type="checkbox"/>			
14	Pressure monitoring	With test point	= M
<input type="checkbox"/>		Without pressure monitoring	= O
18	Membrane accumulator	Nominal flow in l	Max. pressure in bar
<input type="checkbox"/>		0,35	210 = 0,35
<input type="checkbox"/>		0,50	210 = 0,50
<input type="checkbox"/>		0,70	210 = 0,70
<input type="checkbox"/>		0,70	350 = 0,70
<input type="checkbox"/>		1,40	140 = 1,40
<input type="checkbox"/>		1,40	350 = 1,40
<input type="checkbox"/>		2,00	350 = 2,00
<input type="checkbox"/>		2,80	350 = 2,80
<input type="checkbox"/>		3,50	350 = 3,50
<input type="checkbox"/>		Bladder accumulator	0,50
<input type="checkbox"/>		4,00	330 = 4,00
26	Seal	Seal material	FKM = V
<input type="checkbox"/>		Seal material	NBR = M
31	Unloading	Manual	= M
<input type="checkbox"/>		Manual and electro-magnetic	= E

Type code

Type code details

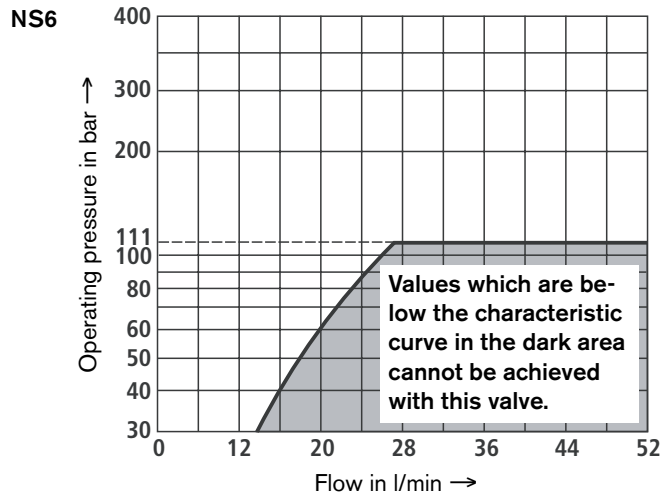
<p><input type="checkbox"/> ¹ Pressure relief valve adjustment element</p>	<p>Set screw with hexagon and protective cap</p> 	<p>= S</p>												
	<p>Rotary knob</p> 	<p>= H</p>												
	<p>Lockable rotary knob</p> 	<p>= A</p>												
<p><input type="checkbox"/> ² Pressure relief valve pressure stage</p>	<p>Max. settable pressure up to</p>	<table border="0"> <tr><td>25 bar</td><td>= 25</td></tr> <tr><td>50 bar</td><td>= 50</td></tr> <tr><td>100 bar</td><td>= 100</td></tr> <tr><td>200 bar</td><td>= 200</td></tr> <tr><td>315 bar</td><td>= 315</td></tr> <tr><td>400 bar</td><td>= 400</td></tr> </table>	25 bar	= 25	50 bar	= 50	100 bar	= 100	200 bar	= 200	315 bar	= 315	400 bar	= 400
25 bar	= 25													
50 bar	= 50													
100 bar	= 100													
200 bar	= 200													
315 bar	= 315													
400 bar	= 400													
<p>Pressure stage of the design tested pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!</p>														
	<p>Max. settable pressure up to</p>	<table border="0"> <tr><td>50 bar</td><td>= 50E</td></tr> <tr><td>100 bar</td><td>= 100E</td></tr> <tr><td>140 bar</td><td>= 140E</td></tr> <tr><td>210 bar</td><td>= 210E</td></tr> <tr><td>330 bar</td><td>= 330E</td></tr> </table>	50 bar	= 50E	100 bar	= 100E	140 bar	= 140E	210 bar	= 210E	330 bar	= 330E		
50 bar	= 50E													
100 bar	= 100E													
140 bar	= 140E													
210 bar	= 210E													
330 bar	= 330E													
<p>Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC</p>														



Type code

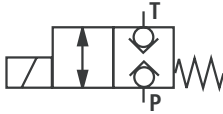
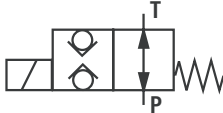
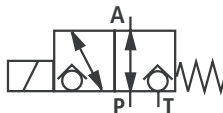
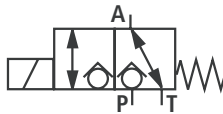
Type code details

3	Pressure stage of the design test pressure relief valve to directive 97/23/EC (pressure component directive) Further pressure stages on request!				
		Max. settable pressure up to	50 bar	=	50E
		Max. settable pressure up to	100 bar	=	100E
		Max. settable pressure up to	140 bar	=	140E
		Max. settable pressure up to	210 bar	=	210E
		Max. settable pressure up to	330 bar	=	330E
<p>Characteristic curve for design tested pressure relief valves type: DBD../..E Design tested to the pressure component directive 97/23/EC</p>					



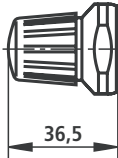
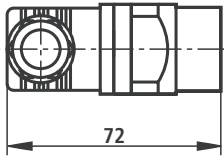

Type code

Type code details

4 <input type="checkbox"/> 2/2 poppet valve code			= N
			= P
5 <input type="checkbox"/> 3/2 poppet valve code			= U
			= C
8 <input type="checkbox"/> Poppet valve solenoid voltage	Voltage	24 V DC	= G24
14 <input type="checkbox"/> Pressure monitoring	With test point Without pressure monitoring		= M = O
15 <input type="checkbox"/> Max. Pressure gauge indicating range	without Pressure monitoring Indication range 60 bar Indication range 100 bar Indication range 250 bar Indication range 400 bar		= No code = 60 = 100 = 250 = 400
16 <input type="checkbox"/> Pressure relief valve adjustment element	Rotary knob Set screw with hexagon and protective cap Lockable rotary knob with scale Rotary knob with scale		= 1 = 2 = 3 = 7
17 <input type="checkbox"/> Secondary pressure	Max. secondary pressure Max. secondary pressure Max. secondary pressure Max. secondary pressure Max. secondary pressure	25 bar 75 bar 150 bar 210 bar 315 bar	= 25 = 75 = 150 = 210 = 315
18 <input type="checkbox"/> Membrane accumulator	Nominal flow in l	Max. pressure in bar	
	0,35	210	= 0,35
	0,50	210	= 0,50
	0,70	210	= 0,70
	0,70	350	= 0,70
	1,40	140	= 1,40
	1,40	350	= 1,40
	2,00	350	= 2,00
	2,80	350	= 2,80
	3,50	350	= 3,50
Bladder accumulator	0,50	400	= 0,50
	4,00	330	= 4,00

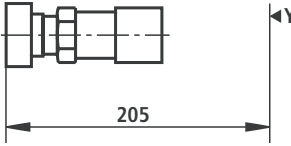
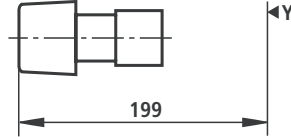
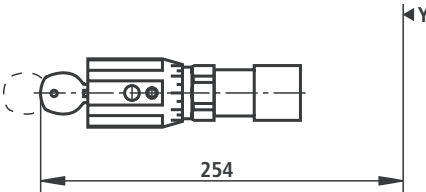
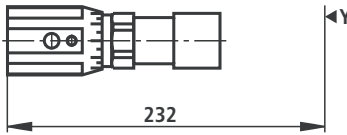
Type code

Type code details

<p>19 <input type="checkbox"/> Filter rating</p>	<p>06 µm 10 µm</p>	<p>= 06 = 10</p>	
<p>20 <input type="checkbox"/> Clogging indicator</p>	<p>Without clogging indicator</p>	<p>= A</p>	
	<p>Visual clogging indicator</p> 	<p>= O</p>	
	<p>Electrical clogging indicator</p> 	<p>= E</p>	
	<p>Technical data for the electrical clogging indicator</p>		
	<p>Maximum voltage</p>	<p>V</p>	<p>42</p>
	<p>Switching capacity</p>	<p>VA</p>	<p>100</p>
<p>Protection with protective cap</p>		<p>IP 65</p>	
<p>Contacts</p>		<p>N/O</p>	
<p>Pin allocation</p> 			
<p>21 <input type="checkbox"/> Check valve</p>	<p>Without check valve In port P In port T In ports P and T</p>	<p>= No code = P = T = PT</p>	
<p>22 <input type="checkbox"/> Ports</p>	<p>Without ports P and T</p>	<p>= No code = PT</p>	

Type code

Type code details

23 <input type="checkbox"/>	Pressure cut-off valve adjustment element	Rotary knob		= 1
		Sleeve with hexagon and protective cap		= 2
		Lockable rotary knob		= 3
		Rotary knob with scale		= 7
24 <input type="checkbox"/>	Pressure cut-off valve pressure stage	Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to Max. settable pressure up to	50 bar 100 bar 200 bar 315 bar	= 50 = 100 = 200 = 315
25 <input type="checkbox"/>	Switching pressure differential	Switching pressure differential Switching pressure differential	10% 17%	= 10 = 17
26 <input type="checkbox"/>	Seal	Seal material Seal material	FKM NBR	= V = M
27 <input type="checkbox"/>	Throttle	Without throttle Throttle diameter Throttle diameter	Ø 1,0 mm Ø 2,5 mm	= No code = B10 = B25

Type code

Type code details

28 <input type="checkbox"/>	Cartridge valve	Adjustable throttle check valve Pilot operated throttle check valve Adjustable throttle check valve and pilot operated throttle check valve	= FS = R = FSR
29 <input type="checkbox"/>	Cartridge valve	In port A In port B In ports A and B	= A = B = AB
30 <input type="checkbox"/>	Filter orientation	Direction C Direction F	= C = F
31 <input type="checkbox"/>	Unloading	Manual Manual and electro-magnetic	= M = E
32 <input type="checkbox"/>	Drain cock	without Drain cock with Drain cock	= No code = A
33 <input type="checkbox"/>	Pressure relief valve adjustment element	Set screw with hexagon and protective cap Lockable rotary knob with scale	= 2 = 3
34 <input type="checkbox"/>	Secondary pressure	Max. secondary pressure Max. secondary pressure Max. secondary pressure Max. secondary pressure with pressure switch Max. secondary pressure with pressure switch Max. secondary pressure with pressure switch	100 bar 210 bar 315 bar 100 bar 210 bar 315 bar = 100 = 210 = 315 = 100D = 210D = 315D

Type code for modules with vertical stacking assemblies

Types: ABCOC / ABBOC

AB | **COC** - **IH15B** - **MUSTER** - **SCHUTZGITTER** - **06** - **AA** | **07**

Power units/ blocks

Customer orientation controls = COC

Branch orientation controls = BOC

Component type

IH15B

Customer name or branch

E.g.
Customer name or presses

Consecutive number

E.g.

07 = Number 7

Variant identification

Forms the component variations fitted

Valve NS

Functional description

(to customer description or branch description)

E.g.

Camping

Small hatch

Revolver

Protective grid

Type code for complete controls

Type: IH15BB

IH | **15** | **B** | **B** | **006** - **1X** / **07** | **024** | **AA** / **W220** | **N9** | **K4** | **M** | **01**

Industrial hydraulics

Module series

15

Assembly

From the module series

Nominal size

Nominal size B = B
q_v up to 30 l/min

Largest valve NS

NS 6 = 006

Component series 10 to 19 = 1X

10 to 19 unchanged installation and connection dimensions

Number of modules

E.g.
7 modules = 07

Connection type

01 = Pipe thread to ISO 228 part I

Seal material

M = NBR seals
V = FKM seals

Electrical connection type

Built on components

Version of the auxiliary actuation devices

Built on components

Valve voltage

E.g.

G24 = 24 V DC

W220 = 220 V AC

Variant identification

Forms the component variations fitted

Consecutive number

E.g.

024 = Number 24

Example:

IH15BB006-1X/07024AA/W220N9K4M01

Assembly IH15B, of nominal size B up to 30 l/min. with NS6 valves, 7 modules, consecutive no. 24, variant AA, 220 V AC, N9 auxiliary actuation device connector type K4; seal material: Perbunan; connection type with pipe threads to ISO 228 part 1

Accessories

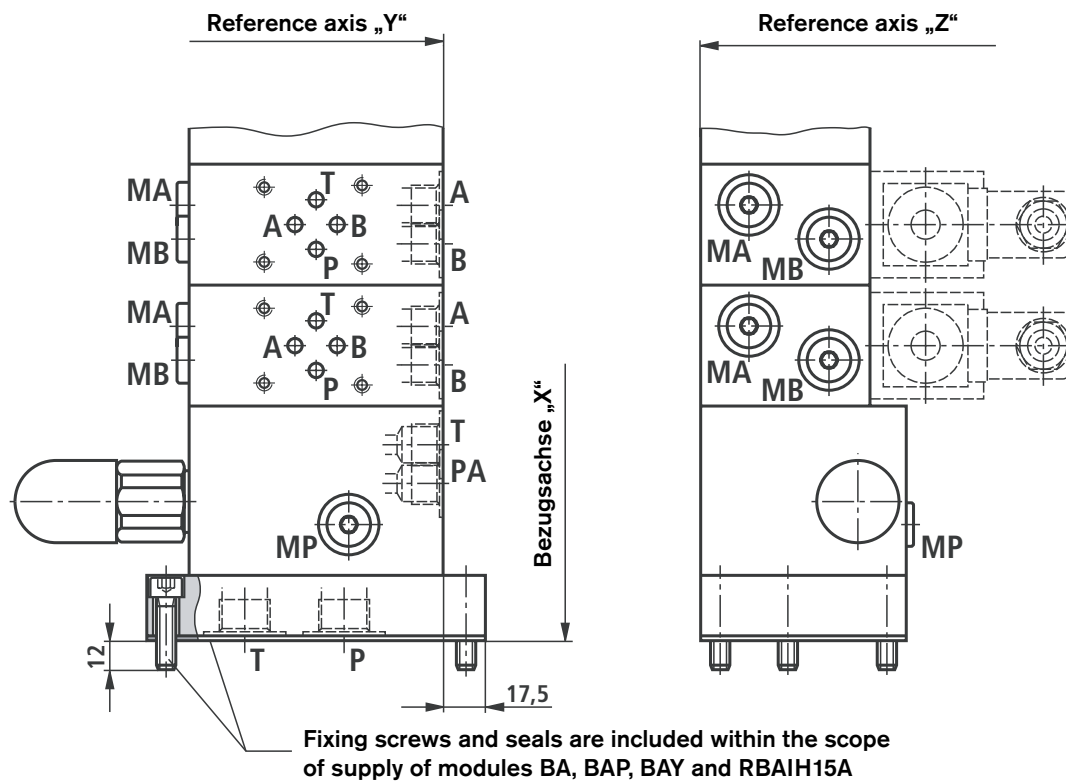
Filter element

Material No.	Module	Description	NS	Material	Filter rating
R900994484	F30 / UPE5F30	Filter cartridge	30	NBR	06 µm
R904001261	F30 / UPE5F30	Filter cartridge	30	FKM	06 µm
R900994483	F30 / UPE5F30	Filter cartridge	30	NBR	10 µm
R904001262	F30 / UPE5F30	Filter cartridge	30	FKM	10 µm
R900994482	F60 / UPE5F60	Filter cartridge	60	NBR	10 µm
R904001259	F60 / UPE5F60	Filter cartridge	60	FKM	10 µm
R900994481	F60 / UPE5F60	Filter cartridge	60	NBR	06 µm
R904001260	F60 / UPE5F60	Filter cartridge	60	FKM	06 µm
R904500022	DF30 / DFS30	Filter element	30	NBR	10 µm
R904500023	DF30 / DFS30	Filter element	30	FKM	10 µm
R901094713	DF50 / DFS50	Filter element	50	NBR	06 µm
R901094715	DF50 / DFS50	Filter element	50	FKM	06 µm
R901094712	DF50 / DFS50	Filter element	50	NBR	10 µm
R901094714	DF50 / DFS50	Filter element	50	FKM	10 µm

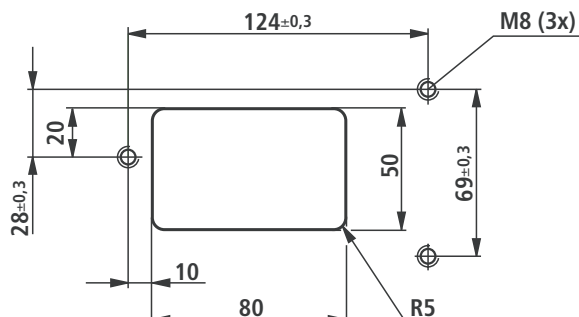
Filter cartridge assembly tool

- Pipe pliers Material No.: R904001048

Dimensions: Unit dimensions (nominal dimensions in mm)



Dimensions: Reservoir cutout (nominal dimensions in mm)



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