HYDRANTS



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HYDRANTS

Extension for break-away area



Accessories

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Spare parts

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Tools

Hydrant operating key	Page Q 4/2
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Technical information

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Annual inspection (in-house monitoring) with documentation acc. to. ÖNORM B 2539 prescribed.

on request

Application examples







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HYDRANTS

H4 Hawle-hydrant



Design features

- Modern design
- · Made entirely of corrosion free materials
- O-rings embedded in non-corrosive material
- Minimal torque for operation (MOT < 80 Nm, mST > 250 Nm)
- Noticeable stop at the limits when opening and closing
- Hydrant head can be turned completely 360°
- Easy exchange of all inner parts
- Remaining water content according to EN 1074-6
- Automatic drainage system with pressure control, drainage time less than 10 min.
- Opening direction left
- 15 turns to open position
- Connection option for drainage line PE pipe Ø32 or Hawle drainage pipe no. 5067
- Outlets according to other international standards possible
- Several outlets on the stand pipe possible, positions on request
- Resistant against desinfectants acc. to EN 1074-1

Above ground hydrant - break away

- Simple repair of the breakaway areas
- Spare bolts for quick repair of the break away line are contained in the hydrant head
- Safety bar for spindle housing in the area of the break away line
- · Hydrant head can be delivered with individual colors

Material | Technical features

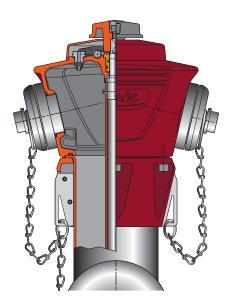
Both the stainless steel*- as well as the ductile iron version have completely identical internal parts made from corrosion-proof materials such as stainless steel, non-ferrous metal and plastic

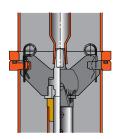
H4 above ground hydrants "stainless steel"

- According to EN 14384, EN 1074-6 and ÖNORM F 2010
- Hydrant head made of aluminium alloy, UV resistant coat
- Stand pipe and break away line made of stainless steel
- Stand pipe with socket made of stainless steel

H4-above ground hydrants "cast iron"

- According to EN 14384, EN 1074-6 and ÖNORM F 2010
- Hydrant head made of ductile iron, epoxy powder and UV resistant coat RAL 9006
- Stand pipe and break away line made of hot-galvanised steel and UV resistant coat RAL 5003
- Base made of ductile iron, epoxy powder coated RAL 5012





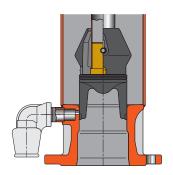
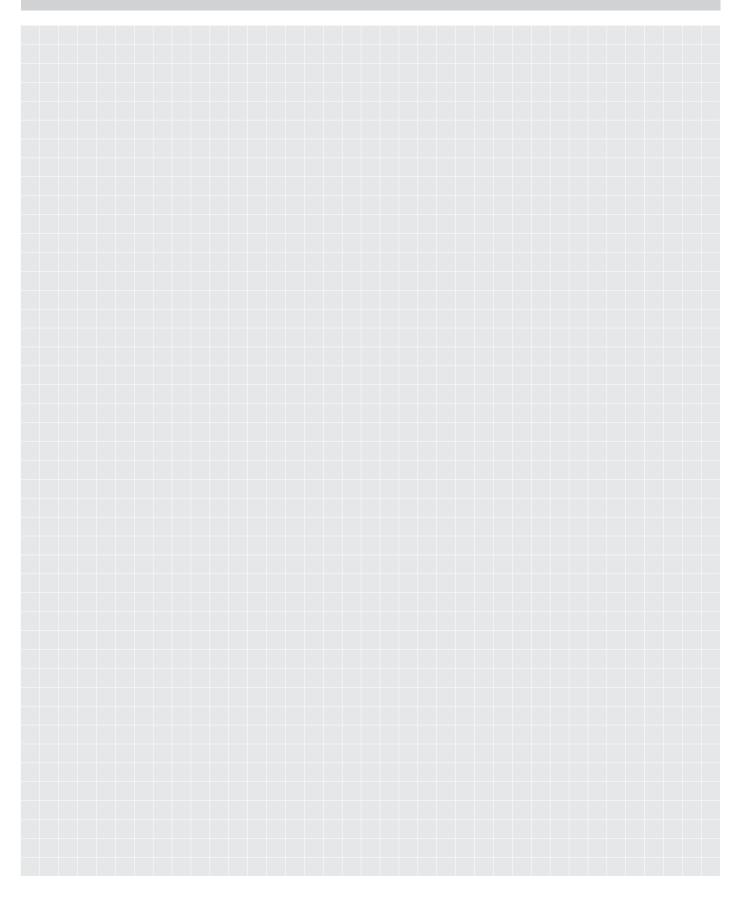


Fig.: break away version

^{*} except "drop jacket" version

NOTES





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Rigid type, PN 16



Technical features

Standard: ÖNORM F 2010 - EN 14384, EN 1074-6

Max. working pressure: 16 bar **Standard pipe cover:** 1,50 m

(on request 1,25 m and 1,00 m possible)

Rate of flow: Rate of flow Q (m³/h) at a differential K_x[m³/h] pressure of 1 bar is for all HAWLE-*H4* hydrants higher than requested by

ÖNORM F 2010 and EN 14384

Remaining water content: < EN 1074-6

 Flange sized and drilled in accordance with EN 1092-1 | PN 16

Material

Hydrant head: aluminium alloy, UV resistant coated

Stand pipe: thick walled stainless steel pipe,

polished

Operating controls: stainless steel

Base: cast stainless steel

Suitable accessories

Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

No. 5151H4 No. 5151H4B

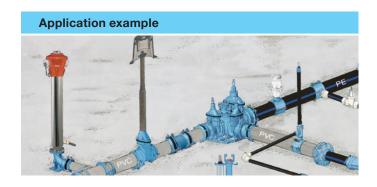
No. 5140H4 No. 5140H4B





Order No.	Colour / RAL	DN	Α	Outle B	t C	Weight	
5151H4	red / 3003	80		1	2	62,2	
5151H4B	blue / 5003	00		'	2	02,2	
5140H4	red / 3003	80		2		61,0	
5140H4B	blue / 5003	80				01,0	
5151H4	red / 3003	100	1	2		65,5	
5151H4B	blue / 5003	100	'	2		00,0	
5140H4*	red / 3003	100		2		63,6	
5140H4B*	blue / 5003	100		2		03,0	

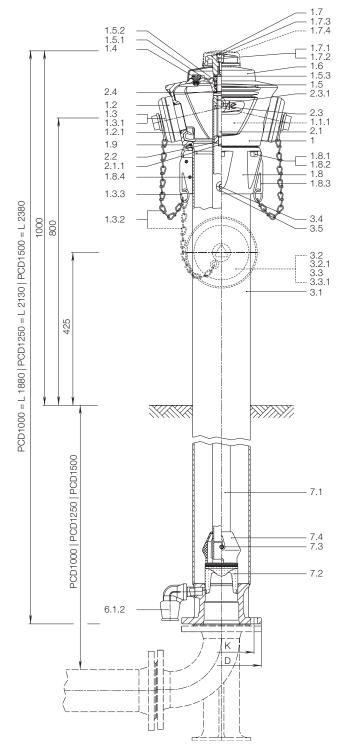
^{*} ÖVGW (Austrian Association for Gas and Water) tested Other colours on request





Rigid type, PN 16





Upper coupling connecting angle 77°

DN	Outlet		Pipe cover	Base flange sized and drilled according to EN 1092-1					
DIA	Α	В	С	PCD	DN	D	K	Bolts	Quantity
80		1 2	2	1,50 m	80	200	160	M 16	0
100	1	2		1,25 m 1,00 m	100	220	180	IVI 10	8

Required details for ordering spare parts: order no. / DN / PCD / year of construction

	Parts	Material
1	Hydrant head	Al
1.1.1	Indentification plate	metallic foil
1.2	DN 80 C coupling DIN 14317 - C1 52 mm DN 100 B coupling DIN 14318 - B1 75 mm	Al
1.2.1	DN 80 O-ring 64 x 4 DN 100 O-ring 79 x 4	elastomer
1.3	DN 80 C cap DIN 14317 - C 4 DN 100 B cap DIN 14318 - B 4	Al
1.3.1	DN 80 C flat seal ring DIN 14317 - C3 DN 100 B flat seal ring DIN 14318 - B3	elastomer
1.3.2	Chain with S-hooks	stainless steel
1.3.3	Ring for chain	stainless steel
1.4	Air valve	POM
1.5	O-ring bush	brass
1.5.1	O-ring 32 x 4	elastomer
1.5.2	O-ring 25 x 3.5	elastomer
1.5.3	Friction washer	POM
1.6	Cap	Al
1.7	Operating nut	Al
1.7.1	Washer A 13	stainless steel
1.7.2	Allen bolt M 12 x 25	stainless steel
1.7.3	Isolating cap	PE
1.7.4	Theft safety device	polystyrene
1.8	Head flange for hydrant head	Al
1.8.1	Washer A 13	stainless steel
1.8.2	Allen bolt M 12 x 40	stainless steel
1.8.3	Fixing strap	stainless steel
1.8.4	Brace 8 x 16	stainless steel
1.9	O-ring 170 x 6	elastomer
2.1	Spindle rigid	stainless steel
2.1.1	Pin 4 x 25	stainless steel
2.2	Stop nut	stainless steel
2.3	Stem nut	brass
2.3.1	Hexagonal bolt M 8 x 10	stainless steel
2.4	Friction washer	POM
3.1	Stand pipe	stainless steel
3.2	DN 80 B coupling DIN 14318 - B1 75 mm DN 100 A coupling DIN 14319 - A1 110 mm	Al
3.2.1	DN 80 O-ring 79 x 4 DN 100 O-ring 116 x 4	elastomer
3.3	DN 80 B cap DIN 14318 - B4 DN 100 A cap DIN 14319 - A4	Al
3.3.1	DN 80 B flat seal ring DIN 14318 - B3 DN 100 A flat seal ring DIN 14319 - A3	elastomer
3.4	Guide pin	stainless steel
3.5	Guide bush	POM
	Fitting 1" / 90°	POM
6.1.2	O :: :	ataiplana ataal
6.1.2 7.1	Operating pipe	stainless steel
	Valve plug	
7.1		brass/elastomer stainless steel



Break away, PN 16



Technical features

Standard: ÖNORM (Austrian standard)

F 2010 - EN 14384, EN 1074-6

with break away line

Max. operating pressure: 16 bar Standard pipe cover: 1,50 m

(on request 1,25 m and 1,00 m possible)

Rate of flow: Rate of flow Q (m³/h) at a differential pressure of 1 bar is for all HAWLE-**H4** hydrants higher than requested by

hydrants higher than requested by ÖNORM F 2010 and EN 14384

Remaining water content: < EN 1074-6

 Flange sized and drilled in accordance with EN 1092-1 | PN 16

Material

Hydrant head: aluminium alloy, UV resistant coated

Stand pipe: thick-walled stainless steel pipe, polished

Operating controls: stainless steel

Base: cast stainless steel

Suitable accessories

Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

No. 5195H4 No. 5195H4B

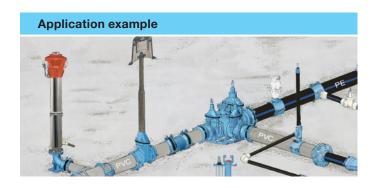
No. 5196H4 No. 5196H4B





Order No.	Colour / RAL	DN	Α	Outle B	t C	Weight	
5195H4	red / 3003	80		4	2	69,5	
5195H4B	blue / 5003	00		'		09,5	
5196H4*	red / 3003	80		2		68,0	
5196H4B*	blue / 5003	00		2		00,0	
5195H4	red / 3003	100	1	2		74.0	
5195H4B	blue / 5003	100	'	2		74,0	
5196H4*	red / 3003	100		2		69,0	
5196H4B*	blue / 5003	100		2		09,0	

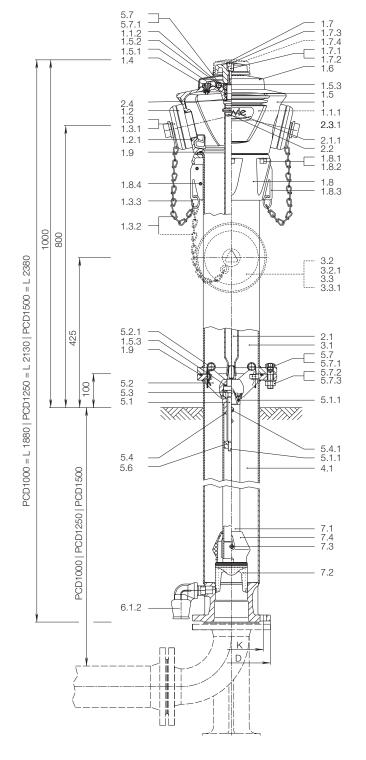
^{*} ÖVGW (Austrian Association for Gas and Water) tested Other colours on request





Break away, PN 16





Upper coupling connecting angle 77°

DN	Outlet Pipe co		Pipe cover	s	N 1092-1				
DIA	Α	В	С	PCD	DN	D	K	Bolts	Quantity
80		1 2	2	1,50 m	80	200	160	M 16	0
100	1	2		1,25 m 1,00 m	100	220	180	M 16	8

	Parts	Material
1	Hydrant head	Al
	Indentification plate	metallic foil
	Bolt fastener DN 80 C coupling DIN 14317 - C1 52 mm	elastomer
1.2	DN 100 B coupling DIN 14318 - B1 75 mm	Al
1.2.1	DN 80 O-ring 64 x 4 DN 100 O-ring 79 x 4	elastomer
1.3	DN 80 C cap DIN 14317 - C 4 DN 100 B cap DIN 14318 - B 4	Al
1.3.1	DN 80 C flat seal ring DIN 14317 - C3 DN 100 B flat seal ring DIN 14318 - B3	elastomer
	Chain with S-hooks	stainless steel
	Ring for chain	stainless steel
1.4	Air valve	POM
	O-ring bush	brass
	O-ring 32 x 4	elastomer
	O-ring 25 x 3.5	elastomer
	Friction washer	POM
1.6	Cap Operating put	Al Al
	Operating nut Washer A 13	stainless steel
	Allen bolt M 12 x 25	stainless steel
	Isolating cap	PE
	Theft safety device	polystyrene
1.8	Head flange for hydrant head	Al
	Washer A 13	stainless steel
	Allen bolt M 12 x 40	stainless steel
	Fixing strap	stainless steel
	Brace 8 x 16	stainless steel
1.9	O-ring 170 x 6	elastomer
2.1	Extension spindle	stainless steel
2.1.1	Brace 8 x 50	stainless steel
2.2	Pin	stainless steel
2.4	Friction washer	POM
3.1	Stand pipe - upper part	stainless steel
3.2	DN 80 B coupling DIN 14318 - B1 75 mm DN 100 A coupling DIN 14319 - A1 110 mm	Al
3.2.1	DN 80 O-ring 79 x 4 DN 100 O-ring 116 x 4	elastomer
3.3	DN 80 B cap DIN 14318 - B4 DN 100 A cap DIN 14319 - A4	Al
3.3.1	DN 80 B flat seal ring DIN 14318 - B3 DN 100 A flat seal ring DIN 14319 - A3	elastomer
4.1	Stand pipe - lower part	stainless steel
5.1	Spindle break away	stainless steel
	Pin 4 x 25	stainless steel
5.2	Spindle housing	brass
5.2.1	Spring clip Securing bush	stainless steel POM
5.4	Stem nut	Brass
	Hexagonal bolt M 8 x 10	stainless steel
5.6	Stop nut	stainless steel
5.7	Hexagonal bolt with break away line M 16 x 60	stainless steel
	Plug for bolt	PE
	Washer A 17	stainless steel
	Hexagonal nut M 16	stainless steel
	Fitting 1" / 90°	POM
7.1	Operating pipe	stainless steel
7.2	Valve plug	brass/elastomer
7.3	Securing pin for valve plug	stainless steel
7.4	Flow former	PE



Break away, with drop jacket, PN 16



Design features

- This above ground hydrant is convincing both in terms of technology and its construction in non-corroding material.
 In terms of optical effect, it has a remarkable and clear design
- The "drop jacket technology" protects the upper outlets from unauthorized use and weather. Upon unlocking the plastic jacket and it drops downwards the two indiviually lockable B-outlets can be opened
- · Pressure relieving shut-off valves on hydrant head
- Simple locking and loosening of the drop jacket by means of snap. "Shock absorbers" prevents the drop jacket from bumping hard
- Easy and quick repair of the break away line
- Spare bolts no. 8841 for quick repair of the break away line are stored in the head of the hydrant
- Safety bar for spindle housing in the area of the break away line
- · Easy exchange of all inner parts without excavation

Material | Technical features

Hydrant head: aluminium alloy, UV resistant coated shock-proof UV-resistant plastic

Stand pipe: thick walled stainless steel pipe, polished

Operating controls: stainless steel

Base: stainless steel

Standard: ÖNORM (Austrian standard)

F 2010 - EN 14384, EN 1074-6

Max. operating pressure: 16 bar **Standard pipe cover:** 1,50 m

(on request 1,25 m and 1,00 m possible)

Rate of flow: Rate of flow Q (m³/h) at a differential K [m³/h] pressure of 1 bar is for all HAWLE-**H4**

hydrants higher than requested by ÖNORM F 2010 and EN 14384

Remaining water content: < EN 1074-6

 Flange sized and drilled in accordance with EN 1092-1 | PN 16

Suitable accessories

Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

No. 5186 No. 5185



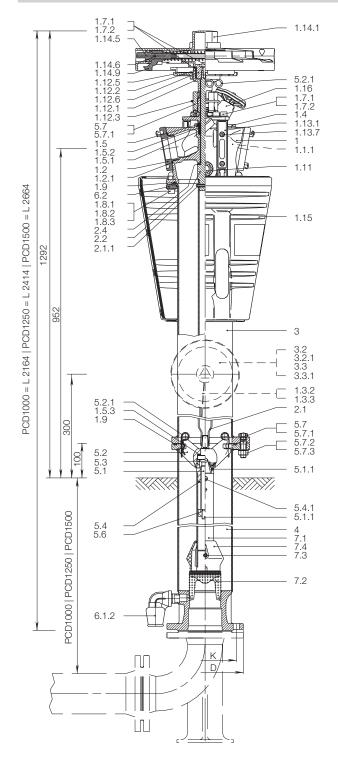


OutsuNe	DN	Out	tlet	Woight	
Order No.	DN	Α	В	Weight	
5186	80		2	79,0	
	100		2	80,0	
5185	100	1	2	81,0	

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Break away, with drop jacket, PN 16





Upper coupling connecting angle 80°

DN	Outlet		Pipe cover	5	EN 1092-1				
DIA	Α	В	PCD	DN	D	K	Bolts	Quantity	
80		2	1,50 m	80	200	160	Mac	0	
100	1	2	1,25 m 1,00 m	100	220	180	M 16	8	

	Parts	Material
1	Hydrant head	Al
1.1.1	Indentification plate	metallic foil
1.2	B coupling DIN 14318 - B1 75 mm	Al
1.2.1	O-ring	elastomer
1.3.2	Grip ring	various
1.3.3	Rope	stainless steel
1.4	Air valve	POM
1.5	O-ring bush	brass
1.5.1	O-ring 32 x 4	elastomer
1.5.2	O-ring 25 x 3.5	elastomer
1.5.3	Friction washer	POM
1.7.1	Washer A 13	stainless steel
1.7.2	Allen bolt M 12 x 25	stainless steel
1.8.1	Washer A 13	stainless steel
1.8.3	Allen bolt M 12 x 40 Cap nut M 12	stainless steel
1.0.3	O-ring 170 x 6	elastomer
1.11	Pressure indicator	brass
	Covering column	Al
1.12.2	Bearing bush	POM
1.12.3		elastomer
	Hood lock	Al
1.12.6	Hood support	Al
1.13.1	Guide strip	POM
1.13.7	Allen bolt M 8 x 20	stainless steel
1.14.1	Hood cover	Al
1.14.5		stainless steel
1.14.6	J	stainless steel
1.14.9	Locking bar	brass
1.15	Drop jacket	ABS
1.16 2.1	Valve bonnet, complete	Al
2.1.1	Extension spindle Brace 8 x 50	stainless steel
2.1.1	Pin for extension spindle	stainless steel
2.4	Friction washer	POM
3	Stand pipe, complete	stainless steel
3.2	A coupling DIN 14319 - A1 110 mm	Al
3.2.1	O-ring 116 x 4	elastomer
3.3	A cap	Al
3.3.1	Flat gasket	elastomer
4	Stand pipe	stainless steel
5.1	Spindle	stainless steel
5.1.1	Pin 4 x 25	stainless steel
5.2	Spindle housing	brass
5.2.1	Spring clip	stainless steel
5.3	Securing bush	POM
5.4	Stem nut	brass
5.4.1 5.6	Hexagonal bolt M 8 x 10 Stop nut	stainless steel
5.7	Hexagonal bolt for breaking point M 16 x 60	stainless steel
5.7.1	Plug for bolt	PE
5.7.2	Washer A 17	stainless steel
5.7.3	Hexagonal nut M 16	stainless steel
6.1.2	Fitting 1" / 90°	POM
6.2	Lock ring	Al
7.1	Operating pipe	stainless steel
7.2	Valve plug	brass/elastomer
7.3	Securing pin for valve plug	stainless steel
7.4	Flow former	PE



Rigid type, PN 16



Technical features

Standard: ÖNORM (Austrian standard)

F 2010 - EN 14384, EN 1074-6

Max. operating pressure: 16 bar Standard pipe cover: 1,50 m

(on request 1,25 m and 1,00 m possible)

Rate of flow: Rate of flow Q (m^3/h) at a differential K₂[m^3/h] pressure of 1 bar is for all HAWLE-**H4**

hydrants higher than requested by ÖNORM F 2010 and EN 14384

Remaining water content: < EN 1074-6

• Flange sized and drilled according to EN 1092-2 | PN 16

Material

Hydrant head: made of ductile iron, epoxy powder- +

UV resistant coated RAL 9006

Stand pipe: thick walled steel pipe, galvanised,

UV resistant coated RAL 5003

Operating controls: stainless steel

Base: made of ductile iron, epoxy powder-

coated RAL 5012

Suitable accessories

Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

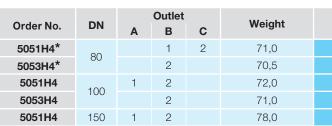
Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

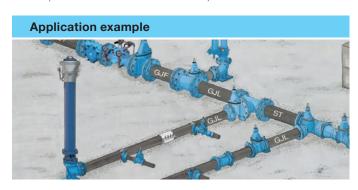
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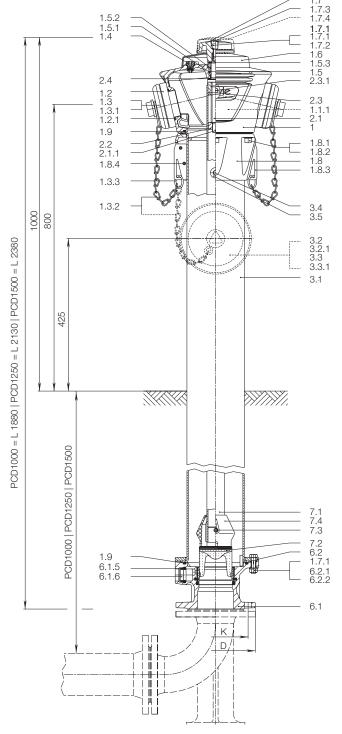
^{*} ÖVGW (Austrian Association for Gas and Water) tested





Rigid type, PN 16





Upper coupling connecting angle 77°

			•	0 0					
DN	C	Outlet		Pipe cover	Base flange sized and drilled according to EN 1092-1				
DIA	Α	В	С	PCD	DN	D	K	Bolts	Qty.
80		1 2	2	1,50 m 1.25 m	80	200	160	M 16	8
100	1	2		1,00 m	100	220	180	IVI TO	0
150	1	2		1,50 m	150	285	240	M 20	8

	Parts	Material
1	Hydrant head	ductile iron
1.1.1	Indentification plate	metallic foil
1.2	DN 80 C coupling DIN 14317 - C1 52 mm DN 100 B coupling DIN 14318 - B1 75 mm	Al
1.2.1	DN 80 O-ring 64 x 4 DN 100 O-ring 79 x 4	elastomer
1.3	DN 80 C cap DIN 14317 - C 4 DN 100 B cap DIN 14318 - B 4	Al
1.3.1	DN 80 C flat seal ring DIN 14317 - C3 DN 100 B flat seal ring DIN 14318 - B3	elastomer
	Chain with S-hooks	stainless steel
	Ring for chain	stainless steel
1.4	Air valve	POM
	O-ring bush	brass
	O-ring 32 x 4	elastomer
	O-ring 25 x 3.5	elastomer
	Friction washer	POM
1.6	Cap	Al
	Operating nut	Al
	Washer A 13	stainless steel
	Allen bolt M 12 x 25	stainless steel
	Isolating cap	PE
1.7.4	Theft safety device	Polystyrene
1.8	Head flange for hydrant head	Al
	Washer A 13	stainless steel
	Allen bolt M 12 x 40	stainless steel
	Fixing strap	stainless steel
	Brace 8 x 16	stainless steel
1.9	O-ring 170 x 6	elastomer
2.1	Spindle rigid	stainless steel
	Pin 4 x 25	stainless steel
2.2	Stop nut	stainless steel
2.3	Stem nut	brass
2.3.1	Hexagonal bolt M 8 x 10	stainless steel
2.4	Friction washer	POM
	Standpipe DN 80 B coupling DIN 14318 - B1 75 mm	
3.2	DN 100 A coupling DIN 14319 - A1 110 mm DN 80 O-ring 79 x 4	Al
3.2.1	DN 100 O-ring 116 x 4 DN 80 B cap DIN 14318 - B4	elastomer
3.3	DN 100 A cap DIN 14319 - A4 DN 80 B flat seal ring DIN 14318 - B3	Al
3.3.1	DN 100 A flat seal ring DIN 14319 - A3 Guide pin	elastomer stainless steel
3.5	Guide bush	POM
6.1	Base	ductile iron
	O-ring 30.3 x 7.5	elastomer
	Grip ring	POM
6.2	Head flange for base	steel
6.2.1	Hexagonal bolt M 12 x 45	stainless steel
6.2.2	Hexagonal nut M 12	stainless steel
7.1	Operating pipe	stainless steel
7.2	Valve plug	brass/elastomer
7.3	Securing pin for valve plug	stainless steel
7.4	Flow former	PE



Break away, PN 16



Technical features

Standard: ÖNORM F 2010 - EN 14384, EN 1074-6

with break-away line

Max. operating pressure: 16 bar **Standard pipe cover:** 1,50 m

(on request 1,25 m and 1,00 m possible)

Rate of flow: Rate of flow Q (m 3 /h) at a differential pressure of 1 bar is for all HAWLE-**H4**

hydrants higher than requested by ÖNORM F 2010 and EN 14384

Remaining water content: < EN 1074-6

• Flange sized and drilled according to EN 1092-2 | PN 16

Material

Hydrant head: made of ductile iron, coated with epoxy

powder and UV resistant RAL 9006

Stand pipe: galvanised thick walled steel pipe

coated with UV resistant RAL 5003

Operating controls: stainless steel

Base: made of ductile iron,

epoxy powder coated RAL 5012

Suitable accessories

Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

No. 5095H4 No. 5096H4





Order No.	er No. DN A B		С	Weight		
5095H4*	90		1	2	82,0	
5096H4*	80		2		78,0	
5095H4	100	1	2		85,0	
5096H4	100		2		81,0	

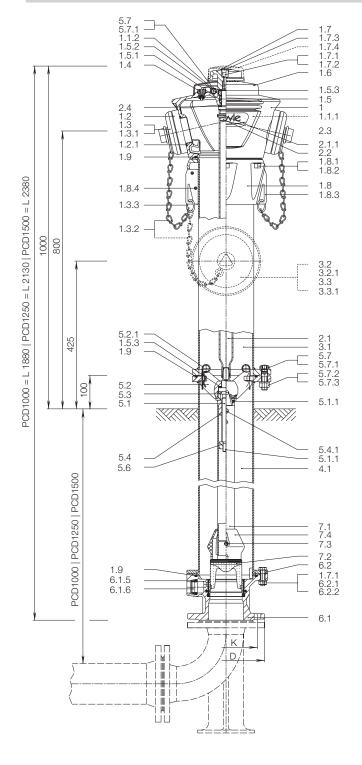
^{*} ÖVGW (Austrian Association for Gas and Water) tested

Application example



Break away, PN 16





Upper coupling connecting angle 77°

DN	Outlet Pipe cover				Base flange sized and drilled according to EN 1092-2						
DIA	Α	В	С	PCD	DN	D	K	Bolts	Quantity		
80		1 2	2	1,50 m	80	200	160	M 16	0		
100	1	2		1,25 m 1,00 m	100	220	180	IVI 10	8		

	Parts	Material
1	Hydrant head	ductile iron
-	Indentification plate	metallic foil
	Bolt fastener	elastomer
	DN 80 C coupling DIN 14317 - C1 52 mm	
1.2	DN 100 B coupling DIN 14318 - B1 75 mm DN 80 O-ring 64 x 4	Al
1.2.1	DN 100 O-ring 79 x 4 DN 80 C cap DIN 14317 - C 4	elastomer
1.3	DN 100 B cap DIN 14318 - B 4 DN 80 C flat seal ring DIN 14317 - C3	Al
1.3.1	DN 100 B flat seal ring DIN 14318 - B3	elastomer
	Chain with S-hooks	stainless steel
	Ring for chain	stainless steel
	Air valve	POM
	O-ring bush	brass
	O-ring 32 x 4	elastomer
	O-ring 25 x 3,5	elastomer
	Friction washer	POM
	Cap	Al
	Operating nut	Al
	Washer A 13	stainless steel
	Allen bolt M 12 x 25	stainless steel PE
	Isolating cap	
	Theft safety device	Polystyrene
	Head flange for hydrant head	Al
	Washer 13	stainless steel
	Allen bolt M 12 x 40	stainless steel
	Fixing strap	stainless steel
	Brace 8 x 16	stainless steel
	O-ring 170 x 6	elastomer
	Extension spindle	stainless steel
	Brace 8 x 50	stainless steel
	Pin	stainless steel
2.4	Friction washer	POM
3.1	Stand pipe	steel
3.2	DN 80 B coupling DIN 14318 - B1 75 mm DN 100 A coupling DIN 14319 - A1 110 mm	Al
3.2.1	DN 80 O-ring 79 x 4 DN 100 O-ring 116 x 4	elastomer
3.3	DN 80 B cap DIN 14318 - B4 DN 100 A cap DIN 14319 - A4	Al
3.3.1	DN 80 B flat seal ring DIN 14318 - B3 DN 100 A flat seal ring DIN 14319 - A3	elastomer
4.1	Stand pipe	steel
5.1	Spindle break away	stainless steel
	Pin 4 x 25	stainless steel
5.2	Spindle housing	brass
	Spring clip	stainless steel
5.3	Securing bush	POM
5.4	Stem nut	brass
5.4.1		stainless steel
5.6	Stop nut	stainless steel
5.7	Hexagonal bolt for breaking point M 16 x 60	stainless steel
	Plug for bolt	PE
	Washer A 17	stainless steel
	Hexagonal nut M 16	stainless steel
6.1	Base	ductile iron
6.1.6	O-ring 30.3 x 7.5 Grip ring	elastomer POM
6.2	Head flange for base	steel
	Hexagonal bolt M 12 x 45	stainless steel
	Hexagonal nut M 12	stainless steel
7.1	Operating pipe	stainless steel
7.2	Valve plug	brass/elastomer
7.3	Securing pin for valve plug	stainless steel
7.4	Flow former	PE
1.4	I IOW IOITIEI	T L



FREEFLOW below ground hydrant

PN 16



Design features

- Free passage
- Stainless steel plate mechanism with fixed opening and closing points, which will not be affected by encrustation or pollution.
- Good corrosion protection by epoxy coating and non-corroding materials
- Maintenance free
- Automatic drainage system with pressure control, drain time less than 10 min.
- Minimal torque for operation
- Suitable for installation by under pressure drilling (installation afterwards)
- Multiple functions possible
- Seals in shut-off element is protected against damage

Material | Technical features

Standard: EN 14339
Max. operating pressure: 16 bar
Standard pipe cover: 1,50 m

Rate of flow: Rate of flow Q (m³/h) at a differential K [m³/h] pressure of 1 bar is higher than

demanded by EN 14339

Remaining water content: < EN 1074-6

• Flange sized and drilled according to EN 1092-2 | PN 16

Connection possibilities:

• Flange connection: EN piece, F piece,

drilling clamp flange sized and

drilled according to EN 1092-2

· BAIO spigot connection: B piece, MMB piece,

SM piece, MMN piece

On request:

- Below ground extensions 100 to 500 mm
- Protection against dirt and twisting no. NL92 of the BAIO spigot

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Suitable accessories: see page H 1/2

Hawle drainage pipe No. 5067

Flanged duck foot bend No. 5045, No. 5046, No. 5049,

No. 7981

Operating key No. 3460, No. 3461

Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840

Surface boxes No. 1950, No 1950K

Dirt and anti-twist protection No. NL92

No. 5060 No. 5061 Bayonet coupling DN 80



		МОР	P	pe cove	r*
Order No.	Version	(PN)	1,00 m	1,25 m	1,50 m
5060	Flange connection DN 80	16			
5061	BAIO spigot connection DN 80	10			

*Optional intermediate lengths possible (smallest pipe cover 0,85 m) Overlengths up to 3 m on request

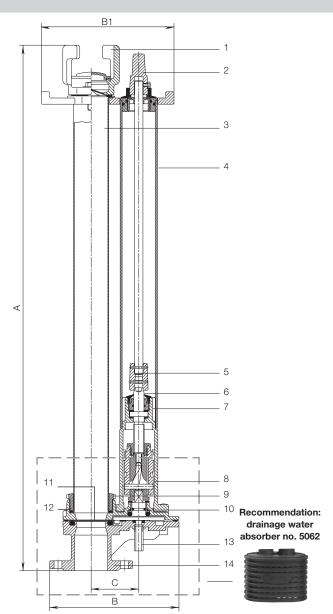




FREEFLOW below ground hydrant

PN 16

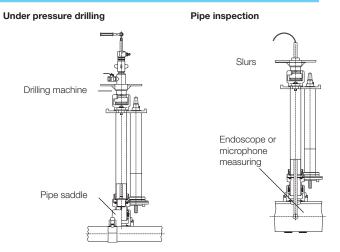




	Parts	Material
1	Bayonet coupling	ductile iron
2	Operating nut	ductile iron, galvanised
3	Pipe	stainless steel, epoxy powder-coated
4	Plastic protection pipe	PP
5	Spindle sleeve	ductile iron, galvanised
6	Spindle	stainless steel
7	Gear	ductile iron
8	Plate drive	stainless steel
9	Ring nut	PA
10	Diving worm	brass
11	Valve plate	stainless steel
12	Hydrant top	ductile iron
13	Drain connection	PE
14	Hydrant end with flange connector or BAIO spigot connector	ductile iron

Order No.	Connection	Pipe cover	Α	В	B1	С	Weight
	Панала	1,00 m	740				35,0
5060	Flange DN 80	1,25 m	990	280	320	445	37,5
	DIN OU	1,50 m	1240				39,5
	BAIO	1,00 m	785			115	31,5
5061	spigot	1,25 m	1045				34,0
	DN 80	1,50 m	1295				36,0

Other application opportunities



Pipe cleaning via badger Pipe draining with sucking lance

Sucking lance B piece



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FREEFLOW below ground hydrant

Tele, PN 16



Design features

- With flange or BAIO spigot
- Integrated telescopic stand pipe
- · Replacement of the jaw coupling by encapsulated hydrant head
- Minimal torque for operation
- Safe against dirt
- Good corrosion protection by epoxy coating and non-corroding materials
- Every pipe covering from 1 to 3 m possible
- Tried and tested, not sensitive to dirt Plug disk shut-off with fixed stops
- No risk of damage for seals on shut-off element
- Completely free passage
- Maintenance free
- Connecting coupling according to other standard possible
- Flange sized and drilled according to EN 1092-2 | PN 16

Suitable accessories

Suitable accessories: see page H 1/2

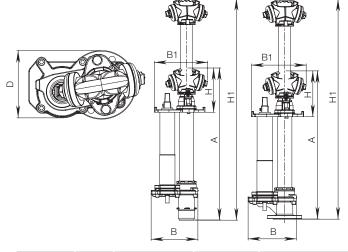
Drainage element No. 5062 Surface box No. 206TH

Flange duck-foot bend No. 5045, No. 5046, No. 5049,

No. 7981 No. 3420

Operating key No. 3420 Flat gasket No. 3390

Bolts No. 8810, No. 8830, No. 8840



Freeflow below ground hydrant tele No. 5058 No. 5059





		МОР	P	ipe cove	er
Order No.			1,00 m	1,25 m	1,50 m
5058	Flange connection DN 80	16			
5059	BAIO spigot connection DN 80				

Order No.	MOP (PN)	Pipe cover	C-outlet	Connection	Α	В	B1	D	н	H1	Weight
	16	1,00 m		Flange connection DN 80*	810	280	320	200	260	1235	38,00
5058		1,25 m			1060					1735	46,00
		1,50 m	0		1310					1985	48,00
		1,00 m	2	BAIO spigot connection DN 80	835					1260	35,00
5059		1,25 m			1085					1760	39,00
		1,50 m			1335					2010	43,00

^{*} Flange sized and drilled according to EN 1092-2 | PN 16



GARDEN hydrant

PN 10



Design features

With standard thread connection

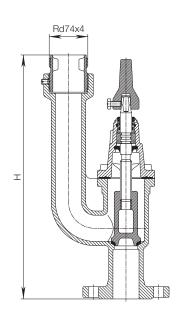
- Flange connection DN 50, EN 1092-2
- · Made of grey iron, epoxy powder coated
- Without drainage outlet (not frost-proof)

(Order no.	Version	MOP (PN)	DN	Total height H	Weight	
	5080	Round thread oulet	10	50	466	16,0	

Flange sized and drilled according to EN 1092-2 | PN 16

No. 5080





Design features

With bayonet grip DN 50

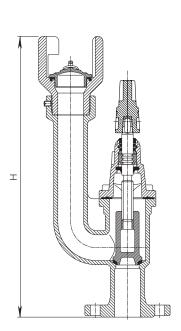
- Flange connection DN 50, EN 1092-2
- · Made of grey iron, epoxy powder coated
- Without drainage outlet (not frost-proof)

Order no. Version		MOP (PN)		Total height H	Weight	
5081	Bayonet coupling	10	50	555	18,5	

Flange sized and drilled according to EN 1092-2 | PN 16

No. 5081



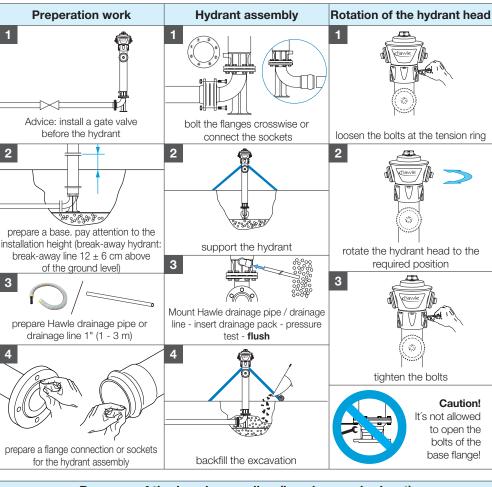


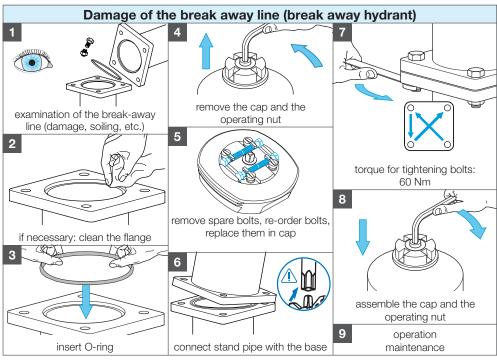
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OPERATING INSTRUCTIONS Above ground hydrant

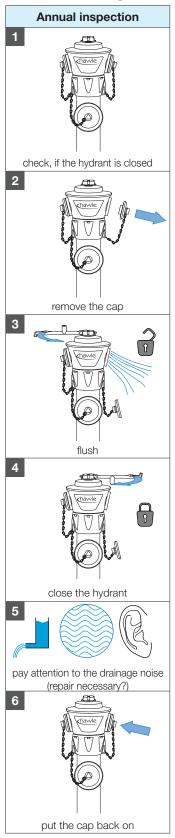


ASSEMBLY





OPERATION MAINTENANCE

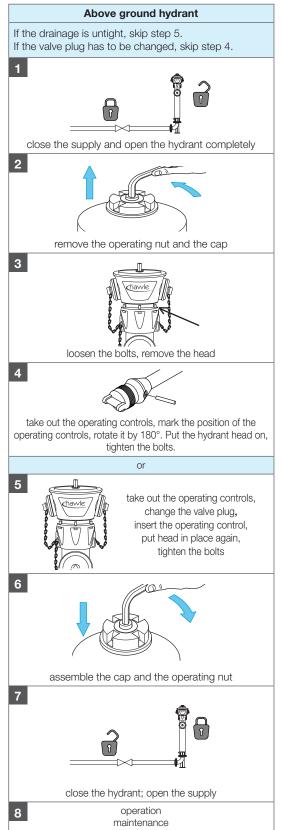


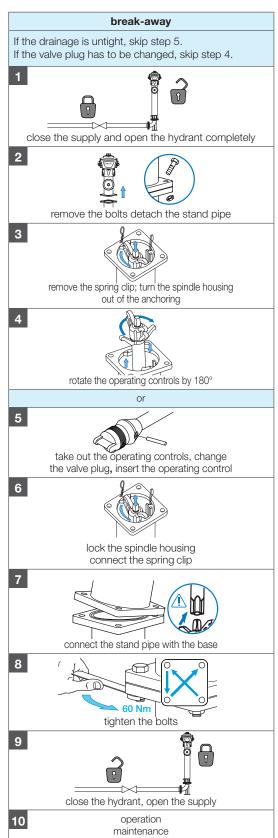


OPERATING INSTRUCTIONS Above ground hydrant



DRAINAGE UNTIGHT or CHANGE OF THE VALVE PLUG







HAWLE drainage pipe

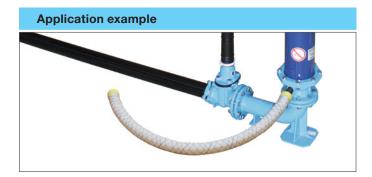
Drainage pipe for hydrants

hawle

Design features

- Intelligent solution for continuous functionality of your hydrants drainage
- Large surface area to output the drainage water to the gravel pack; the drainpipe (Hawle drainage pipe) evenly discharges the water over the whole surface, which is over 300 times larger than the opening of a conventional 1"-hose
- No displacement or extension of the small 1"-pipe opening
- No frost damage

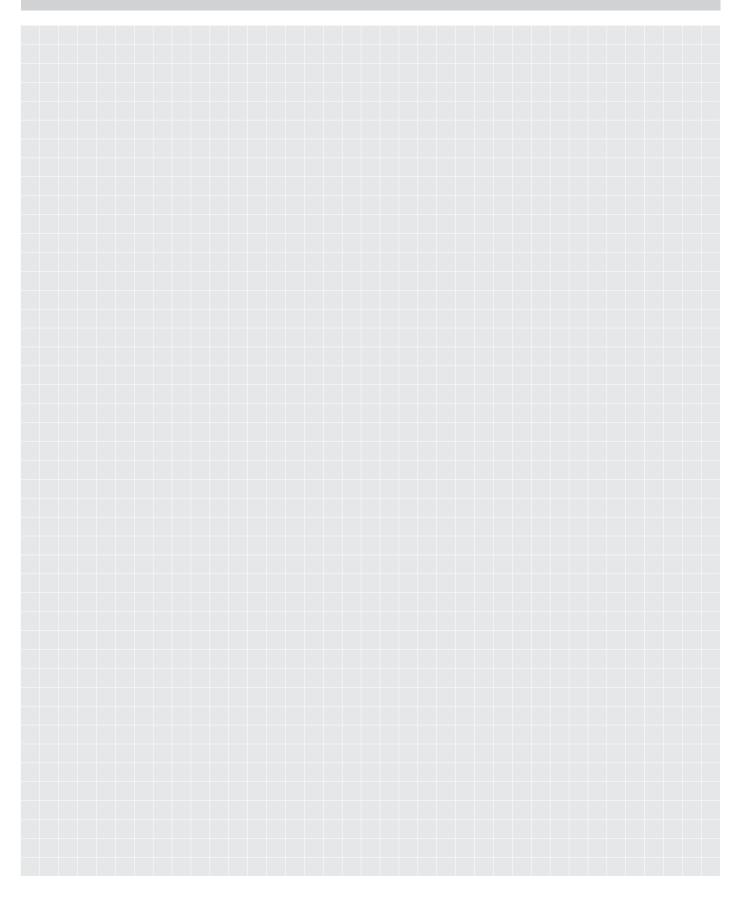






NOTES





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