

Threaded BS21 (ISO 7)

ΕΞΑΡΤΗΜΑΤΑ ΜΕΤΡΗΣΗΣ ΠΑΡΟΧΗΣ

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Specification

D901 & D902 flow measurement devices have square edged entrance orifice plates with tappings for P84 insertion style test points. Flow measurement accuracy of $\pm 3\%$.

D901 - Sizes 3/4" to 2"

Inlet - BS21 (ISO 7) taper female

Outlet - BS21 (ISO 7) taper male

D901/D902 - Sizes 1/2" DN15

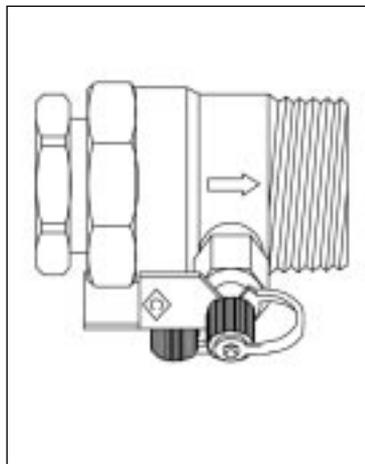
Inlet - BS 2779 (ISO 228) parallel female supplied with compression adaptor to suit 15mm BS EN 1057 copper tube.

Outlet - BS 21 (ISO 7) taper male discard adaptor if connecting steel pipe.

Application

D901 flow measurement devices are suitable for systems where pipes have been sized on the basis that pipe frictional losses lie in the range 100 to 400 Pa/m.

D902 flow measurement device (1/2 /DN15 size only) is suitable for the measurement of ultra low flows in the range 0.015 to 0.06 l/s e.g. flows to fan coil units.



Pressure Temperature Ratings

| | | | |
|----------------|------------|------|------|
| Temperature °C | -10 to 100 | 110 | 120 |
| Pressure (Bar) | 25 | 23.4 | 21.8 |

Maximum temperature 120°C

Note: In line with BS EN 1254/2 the maximum pressure must not exceed 16 bar when using compression adaptors.

Dimensions, Coefficient and Weights

| Cat. No. | Nom. Size | End to end Amm A'mm | Cen-to-top Bmm | Flow Kv | Head loss K | Weight Kg |
|----------|------------|------------------------|-------------------|------------|----------------|--------------|
| D901 | 1/2 DN15 | 57 66 | 55 | 2.8 | 13.5 | 0.29 |
| | 3/4 DN20 | 58 - | 61 | 6.1 | 9.1 | 0.30 |
| | 1 DN25 | 66 - | 65 | 11.9 | 6.1 | 0.40 |
| | 1 1/4 DN32 | 72 - | 71 | 23.4 | 4.8 | 0.50 |
| | 1 1/2 DN40 | 72 - | 73 | 36.2 | 3.7 | 0.54 |
| D902 | 2 DN50 | 82 - | 79 | 71.6 | 2.4 | 0.77 |
| | 1/2 DN15 | 57 66 | 55 | 0.57 | 333 | 0.29 |



ΧΡΥΣΑΦΙΔΗΣ Α.Ε.

Materials

| Part | Material | Specification |
|---------------------------|------------------|------------------|
| Body and Integral orifice | DZR copper alloy | BSEN12164 CW602N |
| P84 Pressure test valve | DZR copper alloy | BSEN12164 CW602N |

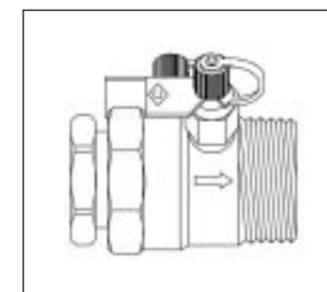
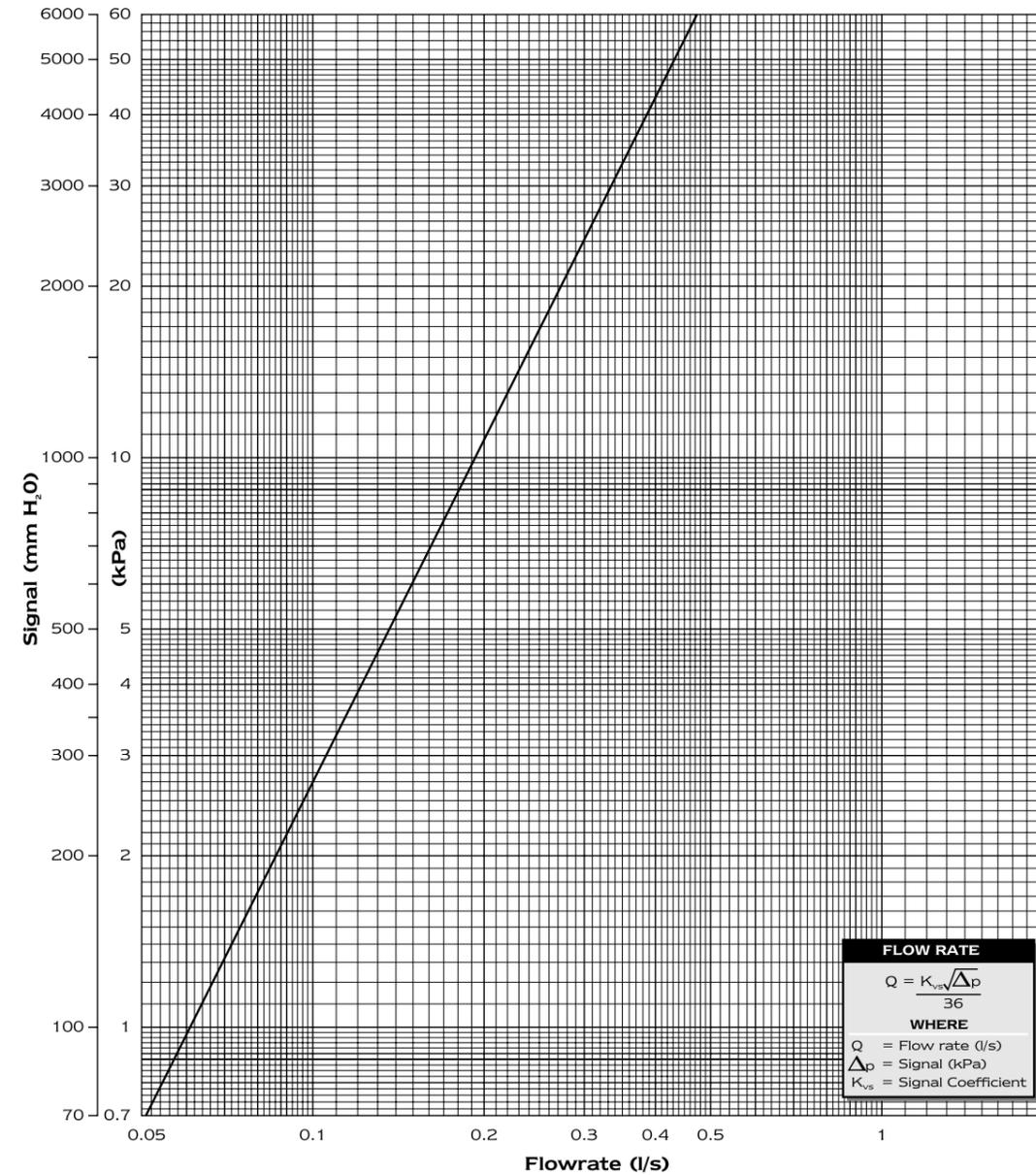


Size 1/2 (DN15) D901

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Fixed orifice devices for standard applications

$K_{vs} = 2.2$



D901

Head / Pressure Loss

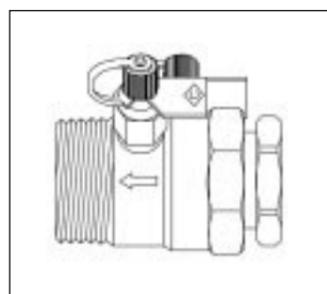
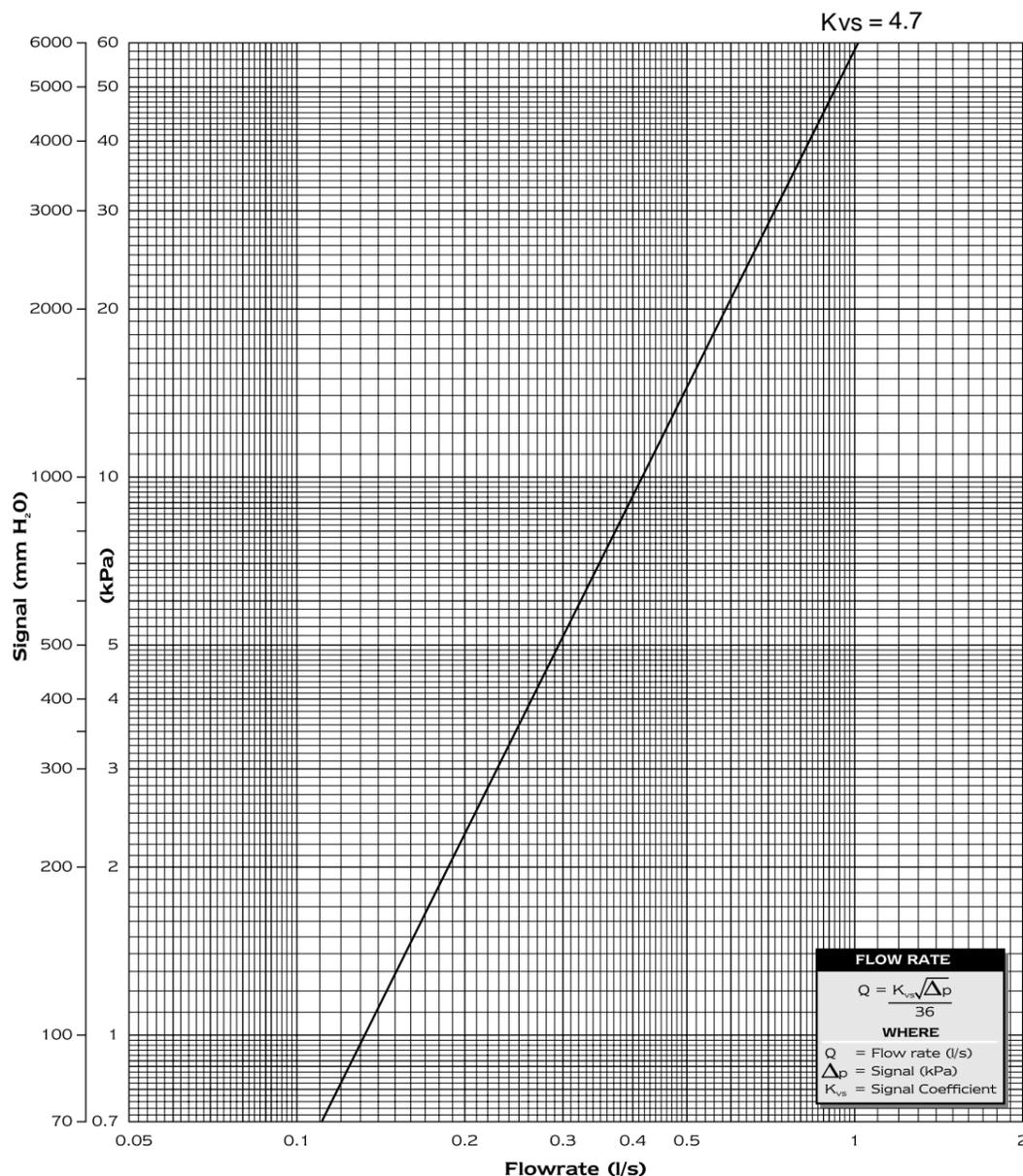
The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| Fig No. | Factor |
|---------|--------|
| D901 | 0.62 |

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Size 3/4 (DN20) D901

Fixed orifice devices for standard applications



D901

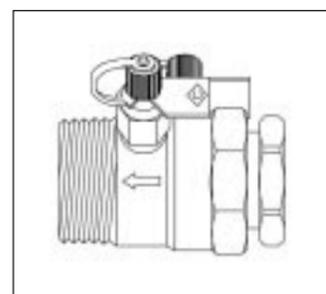
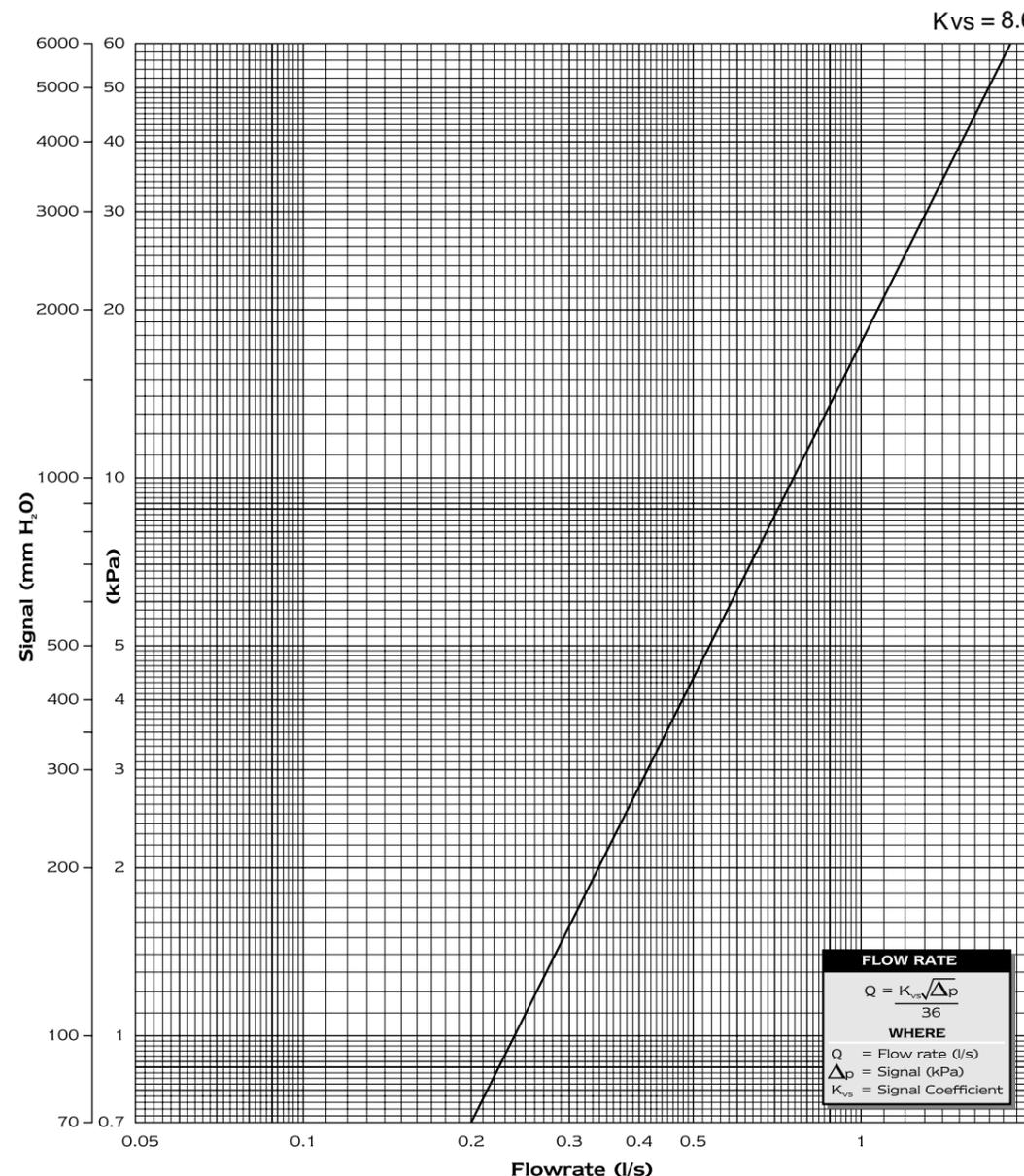
Head / Pressure Loss

The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| | |
|----------------|---------------|
| Fig No. | Factor |
| D901 | 0.59 |

Size 1 (DN25) D901

Fixed orifice devices for standard applications



D901

Head / Pressure Loss

The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| | |
|----------------|---------------|
| Fig No. | Factor |
| D901 | 0.52 |

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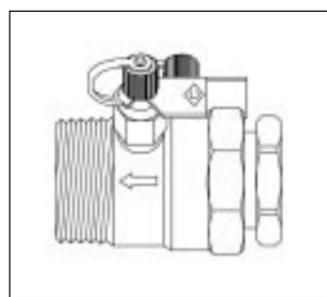
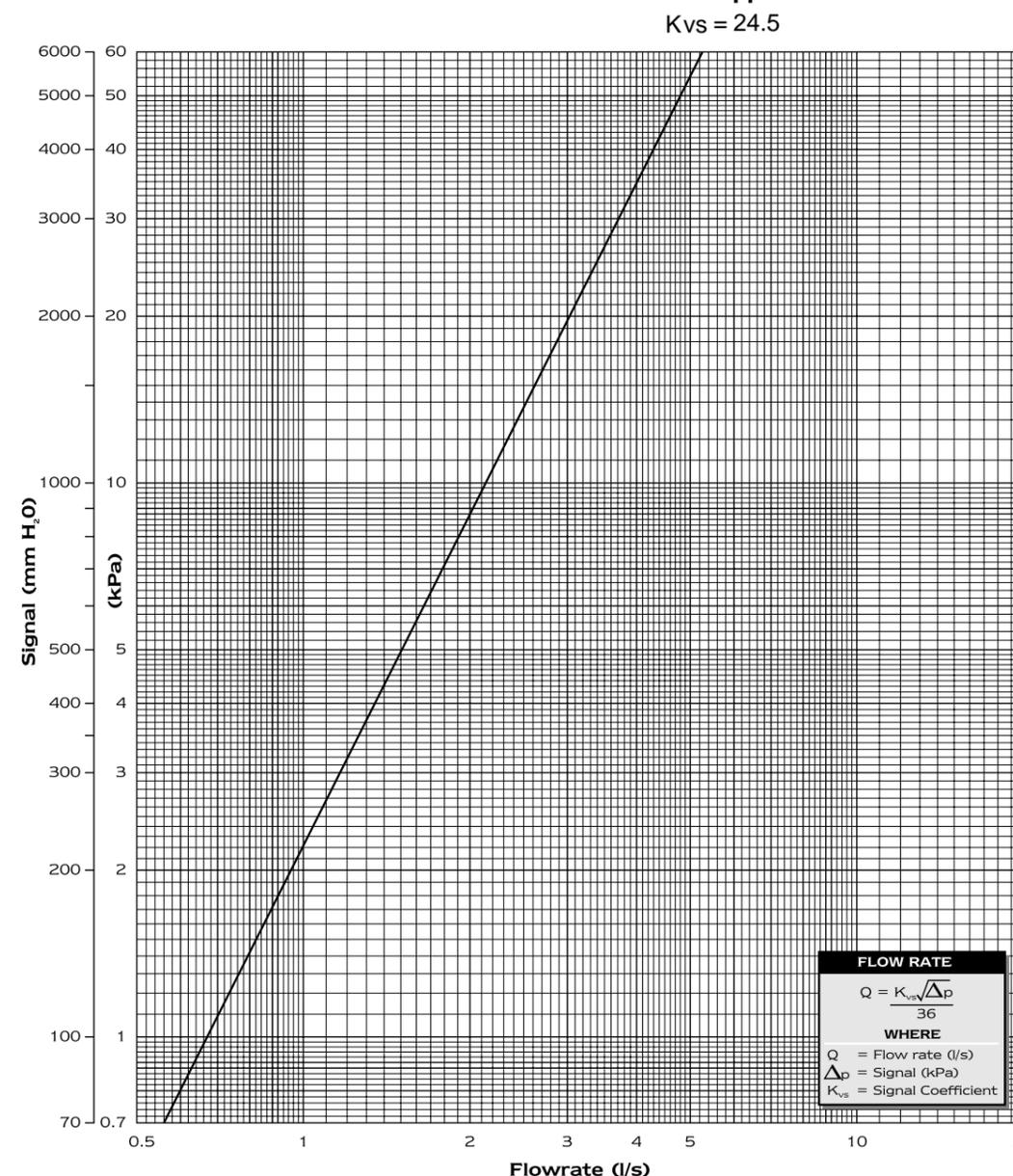
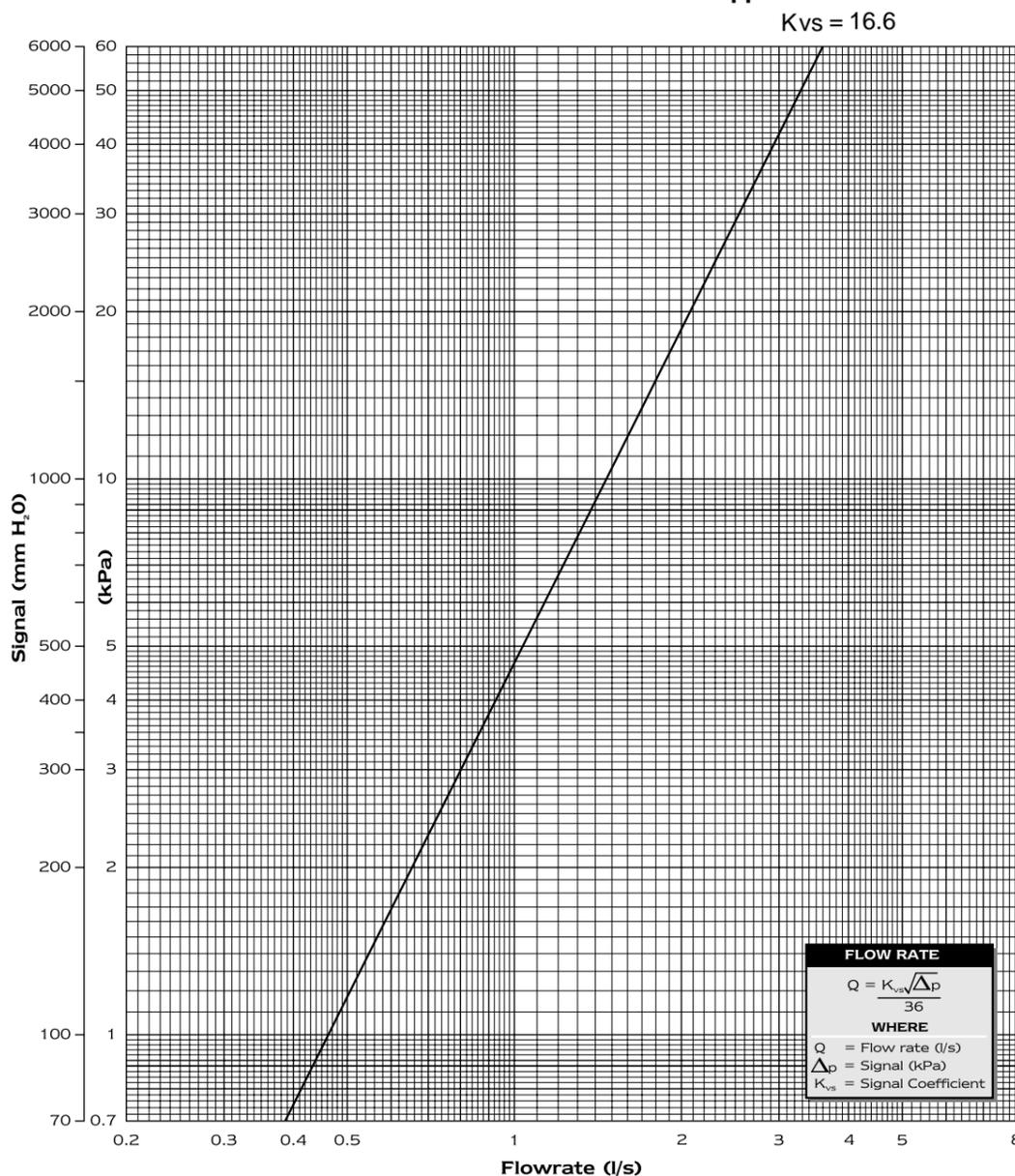
Size 1 1/4 (DN32) D901

Size 1 1/2 (DN40) D901

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Fixed orifice devices for standard applications

Fixed orifice devices for standard applications

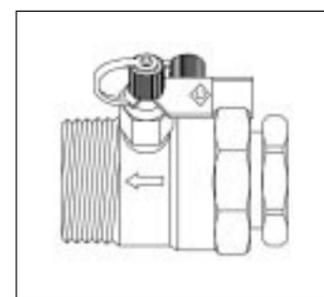


D901

Head / Pressure Loss

The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| Fig No. | Factor |
|---------|--------|
| D901 | 0.50 |



D901

Head / Pressure Loss

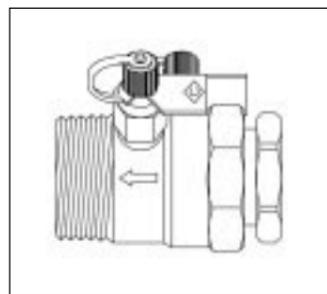
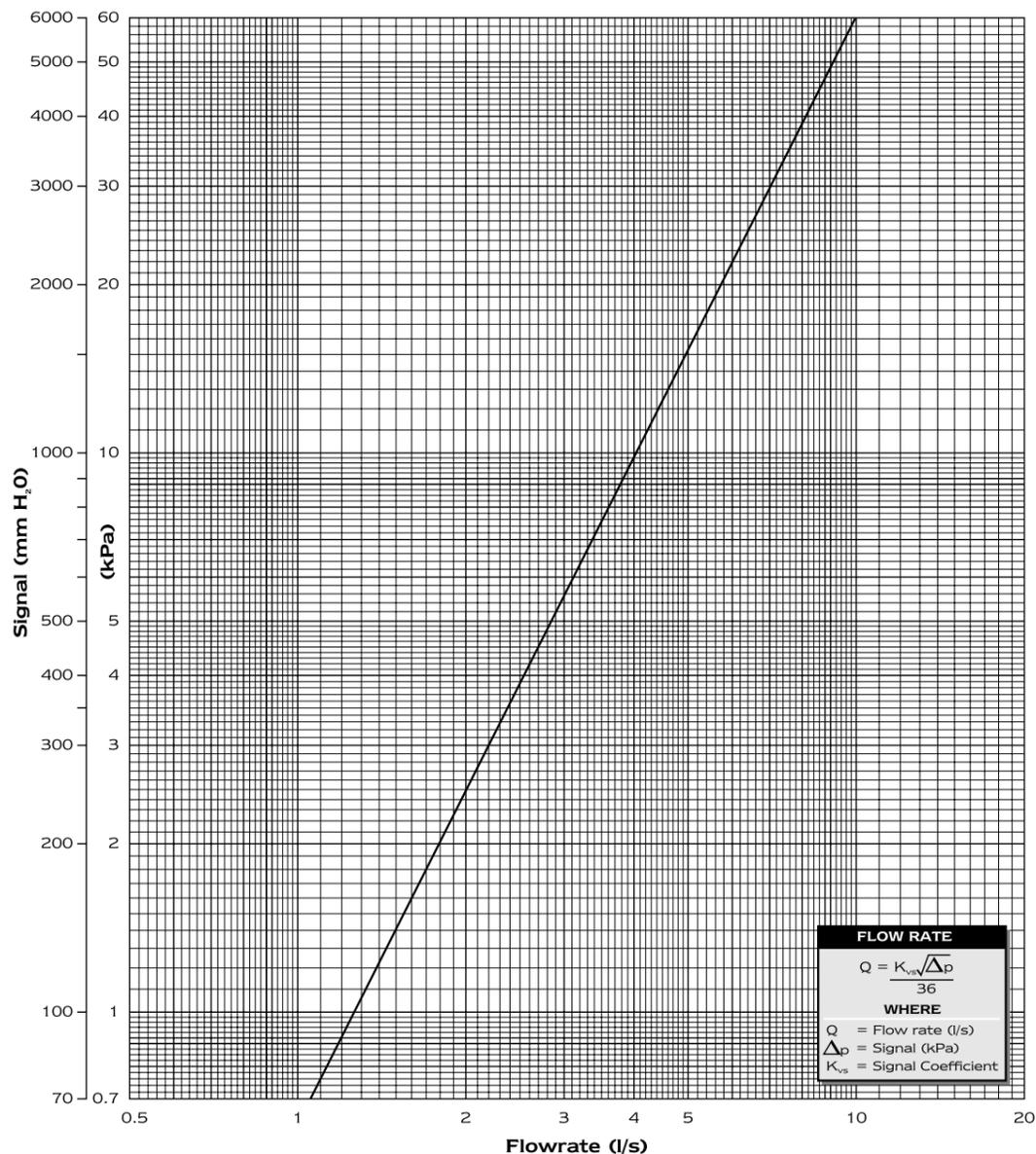
The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| Fig No. | Factor |
|---------|--------|
| D901 | 0.46 |

Size 2 (DN50) D901

Fixed orifice devices for standard applications

Kvs = 46.1



D901

Head / Pressure Loss

The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

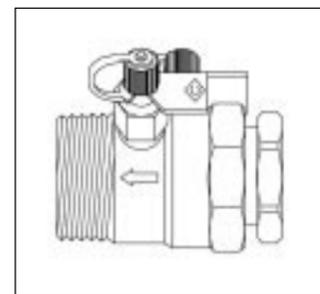
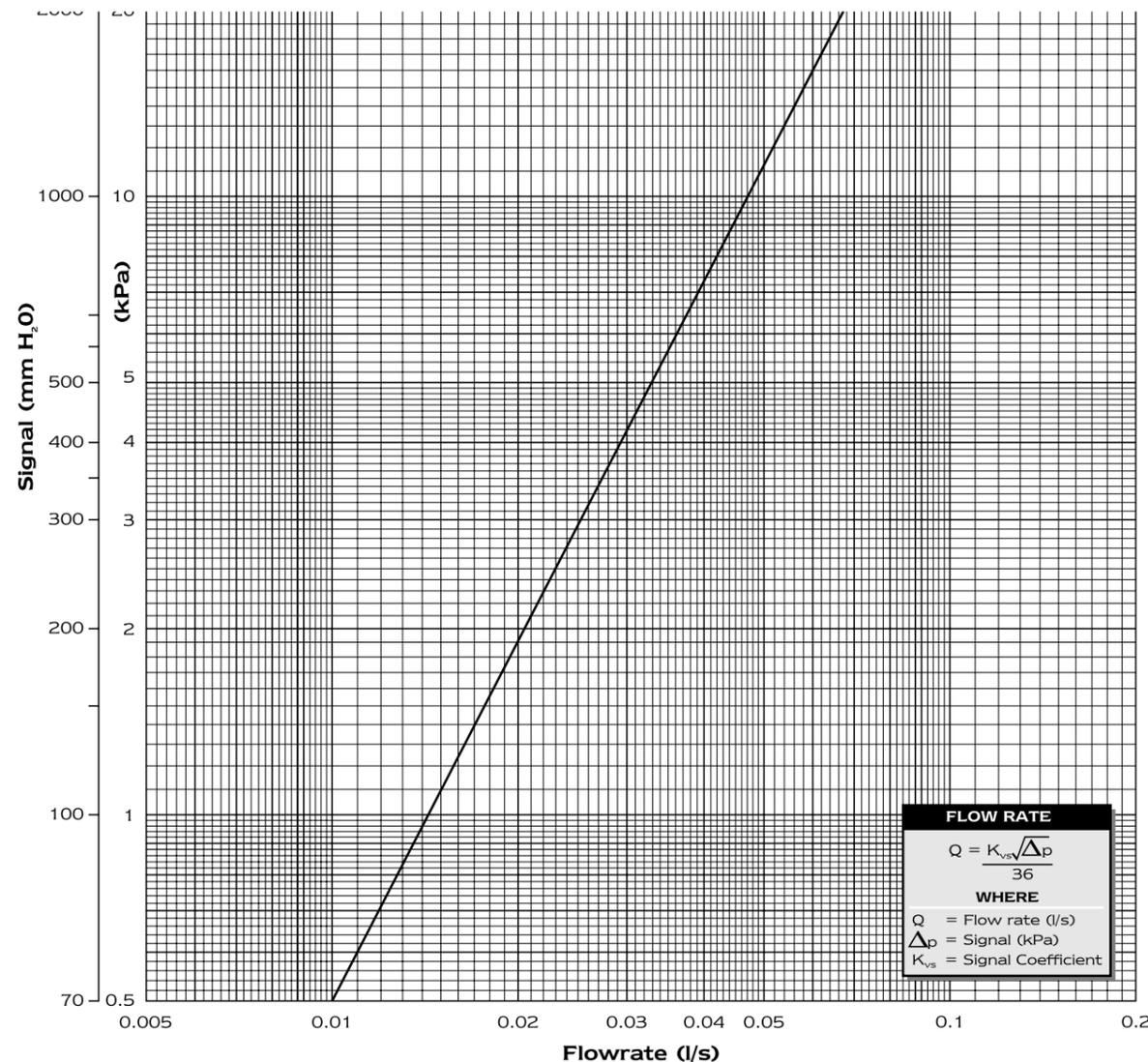
| Fig No. | Factor |
|---------|--------|
| D901 | 0.41 |

Size 1/2 (DN15) D902

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Fixed orifice devices for low flow applications

Kvs = 0.54



D902

Head / Pressure Loss

The loss resulting from the insertion of the device in the pipeline may be calculated by multiplying the signal by the appropriate factor.

| Fig No. | Factor |
|---------|--------|
| D902 | 0.90 |