

STS



Globe valves

Shut-off valve with measuring point



Engineering
GREAT Solutions

STS

The STS shut-off valve provides a point for diagnostics to the system. Ideally suited for use on the secondary side in heating and cooling systems, and tap water systems.

Key features

- > **Self-sealing measuring point**
For quick and easy measuring.
- > **System diagnostics and power measuring**
Providing an additional test point to the system enables quick and easy system diagnostics and power measuring with TA-SCOPE.
- > **AMETAL®**
Dezincification resistant alloy that guarantees a longer valve lifetime, and lowers the risk of leakage.



Technical description

Application:

Heating and cooling systems
Tap water systems

Functions:

Measuring
Shut-off
Draining (optional)

Dimensions:

DN 15-50

Pressure class:

PN 20

Temperature:

Max. working temperature: 120°C.
For higher temperatures (max. 150°C),
please contact the nearest sales office.
Min. working temperature: -20°C.

Material:

The valves are made of AMETAL®
Seat seal: Stem with EPDM O-ring
Spindle seal: EPDM O-ring
Handwheel: Polyamide

AMETAL® is the dezincification resistant alloy of IMI Hydronic Engineering.

Marking:

Body: TA, PN 20/150, DN and inch size.
Handwheel: Valve type and DN.

Measuring point

Measuring point are self-sealed. Remove the cap and insert the probe through the seal.

Draining

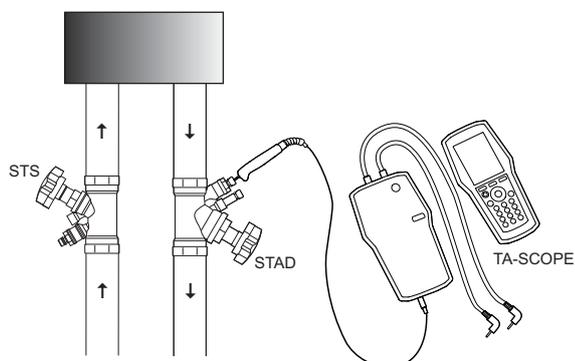
Valves with draining for G3/4 hose connection.
Valves without draining have a sleeve.

This sleeve can temporarily be removed and a draining kit (G3/4 or G1/2) is fitted, which is available as an accessory.

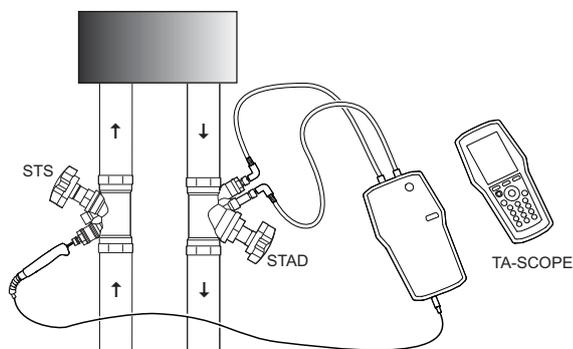
Application examples

Measure power over a circuit

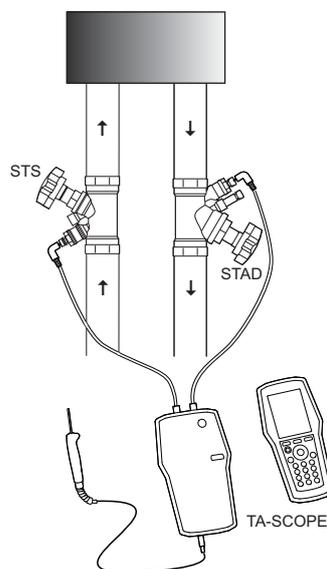
Step 1:



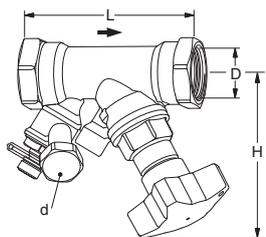
Step 2:



Measure pressure drop over a circuit



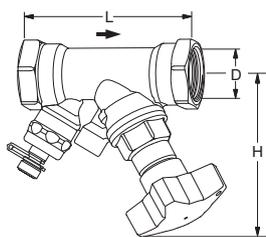
Articles



Female threads

Thread according to ISO 228. Thread length according to ISO 7/1.
With drain

| DN | D | L | H | Kvs | Kg | EAN | Article No |
|-----------------|--------|-----|-----|------|------|---------------|------------|
| d = G3/4 | | | | | | | |
| 15* | G1/2 | 90 | 100 | 6,50 | 0,62 | 7318792752209 | 52 149-615 |
| 20* | G3/4 | 97 | 100 | 6,8 | 0,68 | 7318792752308 | 52 149-620 |
| 25 | G1 | 110 | 105 | 9,8 | 0,88 | 7318792752407 | 52 149-625 |
| 32 | G1 1/4 | 124 | 110 | 18,3 | 1,2 | 7318792752506 | 52 149-632 |
| 40 | G1 1/2 | 130 | 120 | 25,4 | 1,5 | 7318792752605 | 52 149-640 |
| 50 | G2 | 155 | 120 | 42,4 | 2,1 | 7318792752704 | 52 149-650 |



Female threads

Thread according to ISO 228. Thread length according to ISO 7/1.
Without drain (can be installed during operation)

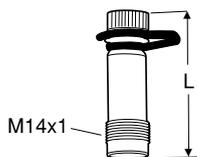
| DN | D | L | H | Kvs | Kg | EAN | Article No |
|-----|--------|-----|-----|------|------|---------------|------------|
| 15* | G1/2 | 90 | 100 | 3,5 | 0,52 | 7318792750403 | 52 149-015 |
| 20* | G3/4 | 97 | 100 | 6,80 | 0,58 | 7318792750502 | 52 149-020 |
| 25 | G1 | 110 | 105 | 9,80 | 0,78 | 7318792750601 | 52 149-025 |
| 32 | G1 1/4 | 124 | 110 | 18,3 | 1,0 | 7318792750700 | 52 149-032 |
| 40 | G1 1/2 | 130 | 120 | 25,4 | 1,4 | 7318792750809 | 52 149-040 |
| 50 | G2 | 155 | 120 | 42,4 | 2,0 | 7318792750908 | 52 149-050 |

→ = Flow direction

Kvs = m³/h at a pressure drop of 1 bar and fully open valve.

*) Can be connected to smooth pipes by KOMBI compression coupling.

Accessories



Measuring point
Max 120°C (intermittent 150°C)

| L | EAN | Article No |
|-----|---------------|------------|
| 44 | 7318792813207 | 52 179-014 |
| 103 | 7318793858108 | 52 179-015 |



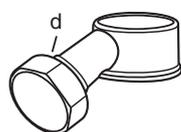
Measuring point
Extensions 60 mm (not for 52 179-000/-601). Can be installed without draining of the system.

| L | EAN | Article No |
|----|---------------|------------|
| 60 | 7318792812804 | 52 179-006 |



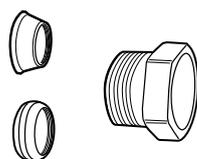
Allen key

| [mm] | EAN | Article No |
|------|----------|---------------|
| 5 | Draining | 7318792836107 |



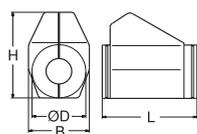
Draining kit
Can be installed during operation

| d | EAN | Article No |
|------|---------------|------------|
| G1/2 | 7318792814907 | 52 179-990 |
| G3/4 | 7318792815003 | 52 179-996 |



KOMBI compression coupling
Max.: 100°C
(See catalogue leaflet KOMBI.)

| Male pipe threads on thrust screw | For pipes, diameter | EAN | Article No |
|-----------------------------------|---------------------|---------------|------------|
| G1/2 | 10 | 7318792874901 | 53 235-109 |
| G1/2 | 12 | 7318792875007 | 53 235-111 |
| G1/2 | 14 | 7318792875106 | 53 235-112 |
| G1/2 | 15 | 7318792875205 | 53 235-113 |
| G1/2 | 16 | 7318792875304 | 53 235-114 |
| G3/4 | 15 | 7318792875403 | 53 235-117 |
| G3/4 | 18 | 7318792875601 | 53 235-121 |
| G3/4 | 22 | 7318792875700 | 53 235-123 |



Insulation
For heating/cooling
See catalogue leaflet Prefab insulations for complete details.

| For DN | L | H | D | B | EAN | Article No |
|--------|-----|-----|-----|-----|---------------|------------|
| 15, 20 | 155 | 135 | 90 | 103 | 7318792839108 | 52 189-615 |
| 25 | 175 | 142 | 94 | 103 | 7318792839306 | 52 189-625 |
| 32 | 195 | 156 | 106 | 103 | 7318792839504 | 52 189-632 |
| 40 | 214 | 169 | 108 | 113 | 7318792839702 | 52 189-640 |
| 50 | 245 | 178 | 108 | 114 | 7318792839900 | 52 189-650 |