



NORGREN

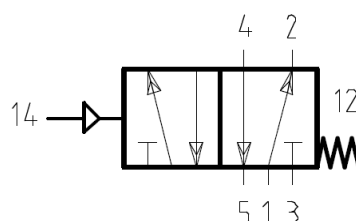
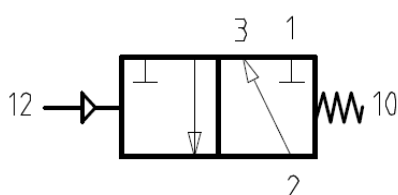
Incorporating



Norgren GmbH, Werk Fellbach, D-70731 Fellbach
Stuttgarter Straße 120, D-70736 Fellbach
Tel.: +49 (0)7 11 / 52 09-0 Fax: +49 (0)7 11 / 52 09-614
www.norgren.de

97105 Air Operated

3/2 and 5/2 way directional valves



BODY

Type	3/2 way, 5/2 way
Operation	Air operated / spring return
Construction	Soft seal spool valve
Nominal diameter	6 mm, 8 mm
Port size	G 1/4, 1/4 NPT, G 3/8, 3/8 NPT, G 1/2, 1/2 NPT
Flow rate	1300 l/min, 2600 l/min
Operating pressure	0... 8 bar
External control pressure	2,5...8 bar
Temperature	-40°C to +65°C
Body material	Anodized Aluminium, Brass, Stainless Steel

SPECIAL FEATURES

Similar to type series 97105 Inline but air operated

OPTION

Operation: air operated / air operated



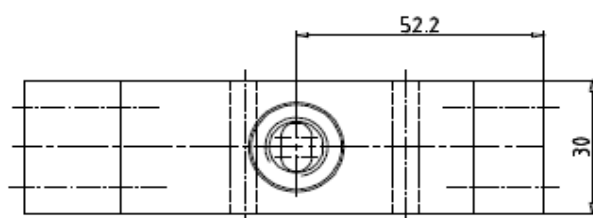


Incorporating **HERION**

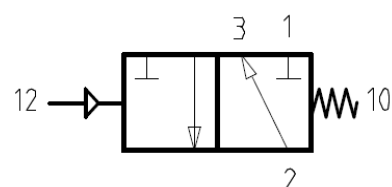
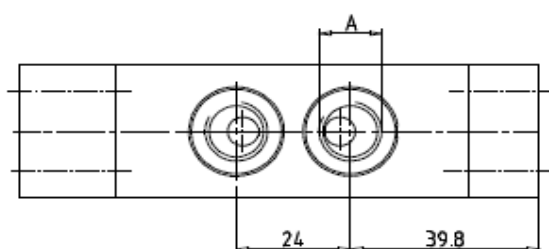
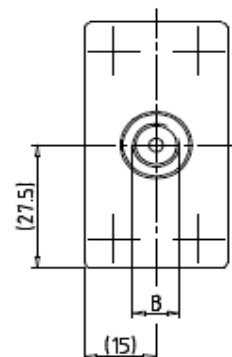
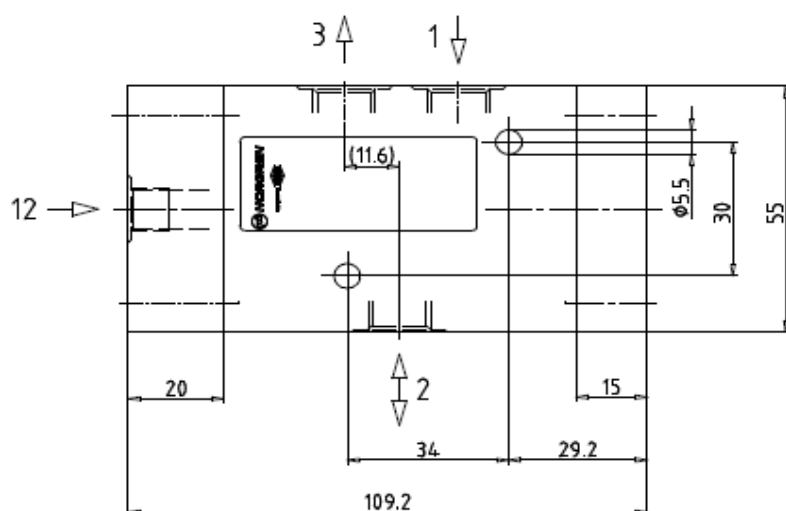
Norgren GmbH, Werk Fellbach, D-70731 Fellbach
 Stuttgarter Straße 120, D-70736 Fellbach
 Tel.: +49 (0)7 11 / 52 09-0 Fax: +49 (0)7 11 / 52 09-614
 www.norgren.de

97105 Air Operated

3/2 way directional valves



Connection		
A	BSP 1/4"	NPT 1/4"
A	BSP 3/8"	NPT 3/8"
A	BSP 1/2"	NPT 1/2"
B	BSP 1/4"	NPT 1/4"



Our policy is one continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document.



Chemical Process Technology



NORGREN

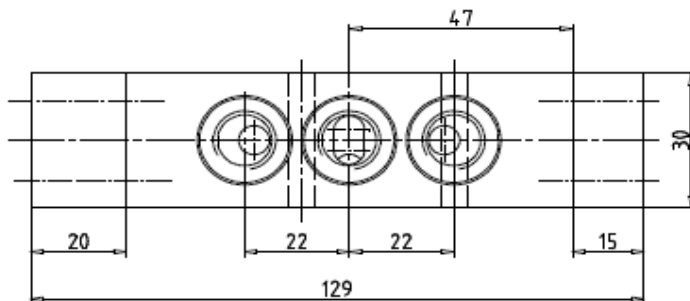
Incorporating



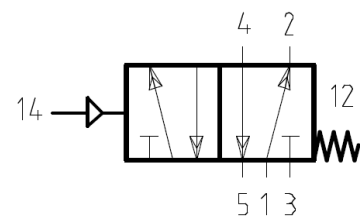
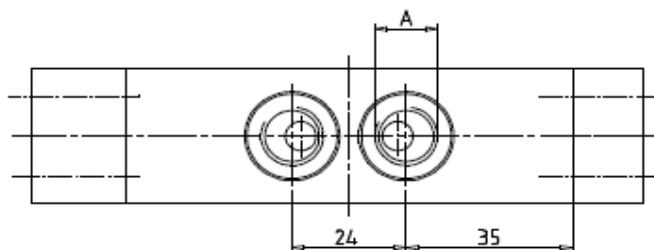
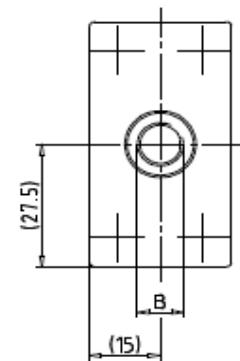
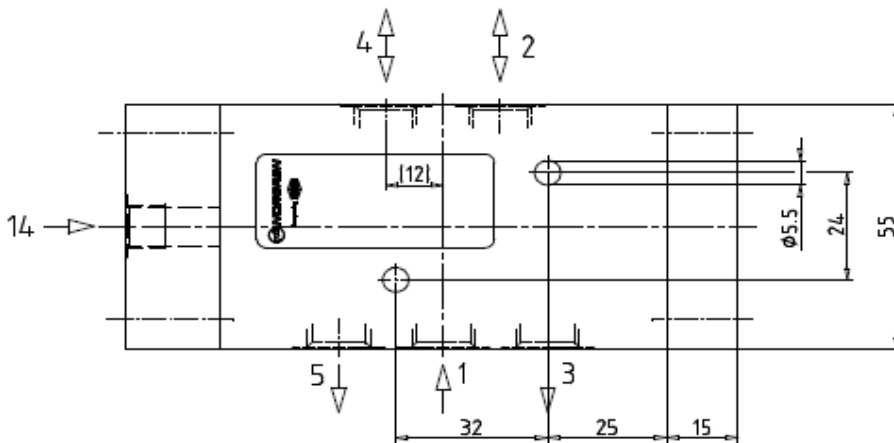
Norgren GmbH, Werk Fellbach, D-70731 Fellbach
Stuttgarter Straße 120, D-70736 Fellbach
Tel.: +49 (0)7 11 / 52 09-0 Fax: +49 (0)7 11 / 52 09-614
www.norgren.de

97105 Air Operated

5/2 way directional valves



Connection		
A	BSP 1/4"	NPT 1/4"
A	BSP 3/8"	NPT 3/8"
A	BSP 1/2"	NPT 1/2"
B	BSP 1/4"	NPT 1/4"



Our policy is one continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document.



Chemical Process Technology

**NORGREN**

Incorporating



Norgren GmbH, Werk Fellbach, D-70731 Fellbach
 Stuttgarter Straße 120, D-70736 Fellbach
 Tel.: +49 (0)7 11 / 52 09-0 Fax: +49 (0)7 11 / 52 09-614
 www.norgren.de

97105 Air Operated

3/2 and 5/2 way directional valves

3/2 and 5/2 directional valves Aluminium anodized body

Type	Port size	Function	Actuation	Operating pressure (bar)	External control pressure (bar)	Flow l/min
9713538	G1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713548	NPT 1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713578	G3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713588	NPT 3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713558	G1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713568	NPT 1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710538	G1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710548	NPT 1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710578	G3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710588	NPT 3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710558	G1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710568	NPT 1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600

3/2 and 5/2 directional valves Brass body

Type	Port size	Function	Actuation	Operating pressure (bar)	External control pressure (bar)	Flow l/min
9713638	G1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713648	NPT 1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713678	G3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713688	NPT 3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713658	G1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713668	NPT 1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710638	G1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710648	NPT 1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710678	G3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710688	NPT 3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710658	G1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710668	NPT 1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600



**NORGREN**

Incorporating



Norgren GmbH, Werk Fellbach, D-70731 Fellbach
Stuttgarter Straße 120, D-70736 Fellbach
Tel.: +49 (0)7 11 / 52 09-0 Fax: +49 (0)7 11 / 52 09-614
www.norgren.de

97105 Air Operated

3/2 and 5/2 way directional valves

3/2 and 5/2 directional valves Stainless steel

Type	Port size	Function	Actuation	Operating pressure (bar)	External control pressure (bar)	Flow l/min
9713738	G1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713748	NPT 1/4	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9713778	G3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713788	NPT 3/8	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713758	G1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9713768	NPT 1/2	3/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710738	G1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710748	NPT 1/4	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	1300
9710778	G3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710788	NPT 3/8	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710758	G1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600
9710768	NPT 1/2	5/2	air operated/ spring	0... 8bar	2,5bar... 8bar	2600

