

PNEUMATIC VALVES

Angle seat valves

Special ends

features

code plan

codes and dimensions

accessories



Features

GENERAL FEATURES

Body valve material: AISI 316L

Valve ends: see code plan.

Assembling is possible in all positions: upright, flat or angled.

Range available from DN 15 to DN 50 in the Double Acting versions, Spring Return N.C. from above and below the plug, Spring Return N.O. from below the plug.

The performance and the pressure's diagrams are the same as per Standard versions but limited at PN16

On request: versions for vacuum and oxygen service

2014-34-EU ATEX configuration to request at time of order

OPERATING MEDIA

Air, water, alcohol, oil, petroleum products, saline solutions, steam, etc. (as long as compatible with AISI 316L or PTFE).

Pressure from 0 to 16 bar (steam from 180 °C, from 0 to 10 bar) depending on the size and model chosen (see catalogue page: from 31 to 34).

Temperature from -10 °C to 180 °C.

Max. viscosity 600 cst (mm²/s).

CONTROL MEDIA

Driving media: compressed air, lubricated or dry, gas or neutral media.

Ambient temperature: -10 °C to +60 °C

SCHEMA DI CODIFICA DELLE VALVOLE ARES ARES CODE PLAN

J4 - PG - - - - YX

Versione *Version*

S = N.C. sottosede anticolpo d'ariete
below the plug anti water hammer
C = N.C. soprasede *above the plug*
A = N.A. - *N.O.*
D = doppio effetto - *double acting*

Ø teste di comando Ø *control heads*

16 = Ø50; 18 = Ø63; 21 = Ø90; 23 = Ø110

Tipo di connessioni *Connection types*

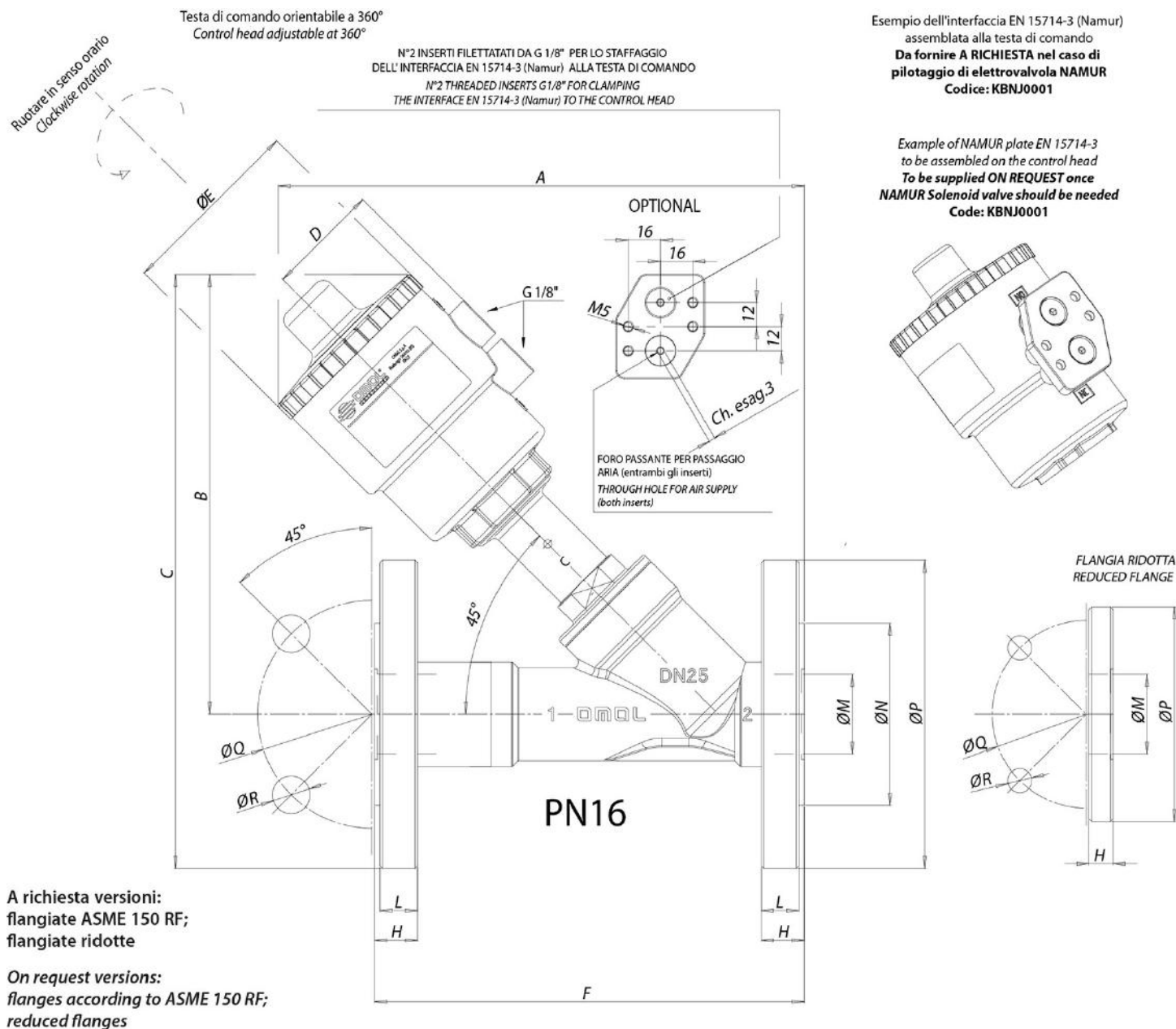
9 = da saldare *weld ends* ISO 4200
6 = flangiate *flanged* UNI EN1092-1
U = triclamp USA 3A - BS4825
R = Ricambio *Spare part*

Misura valvola *Valve size*

4=DN 15; **5**=DN 20; **6**=DN 25; **7**=DN 32; **8**=DN 40; **9**=DN 50

YX solo per versioni ATEX
YX only for ATEX versions

Codes and dimensions - Flanged connections UNI EN1092-1



FLANGED VALVE ANSI 150RF SCART.ASME B16.10 A1

| ANSI 150RF FLANGED VALVE FACE TO FACE ASME B16.10 A1 | | | | | | | |
|--|----|------|----|-----|-----|----|-------|
| DN | H | L | øN | øP | øQ | øR | F |
| 15 | 12 | 10.4 | 35 | 89 | 61 | 16 | 108 |
| 20 | 13 | 11.4 | 43 | 98 | 70 | 16 | 117.5 |
| 25 | 15 | 13.4 | 51 | 108 | 80 | 16 | 127 |
| 32 | 16 | 14.4 | 64 | 118 | 89 | 16 | 140 |
| 40 | 18 | 16.4 | 73 | 127 | 99 | 16 | 165 |
| 50 | 19 | 17.4 | 93 | 152 | 121 | 19 | 178 |

REDUCED FLANGES VALVES

| DN | H | øP | øQ | øR | F |
|----|---|----|----|----|-------|
| 15 | 7 | 70 | 50 | 7 | 104.5 |

| | | | | | |
|----|----|-----|----|----|-------|
| 20 | 8 | 75 | 55 | 9 | 119.5 |
| 25 | 9 | 80 | 60 | 9 | 134.5 |
| 32 | 9 | 90 | 70 | 9 | 149.5 |
| 40 | 10 | 100 | 80 | 9 | 164.5 |
| 50 | 10 | 110 | 90 | 11 | 179.5 |

| DN | Control head | A | B | C | D | øE | F | H | L | øM | øN | øP | øQ | øR |
|----|--------------|---------------|------------|--------------|-------------|--------------|------------|-----------|-----------|-------------|------------|------------|------------|-----------|
| 15 | ø 50 | 182.5 | 156 | 203.5 | 44 | 70 | 130 | 16 | 14 | 18.1 | 45 | 95 | 65 | 14 |
| 20 | ø 50 | 192.3 | 160 | 212.5 | 44 | 70 | 150 | 18 | 16 | 23.7 | 58 | 105 | 75 | 14 |
| 20 | ø 63 | 210.3 | 178 | 230.5 | 50.5 | 84.4 | 150 | 18 | 16 | 23.7 | 58 | 105 | 75 | 14 |
| 25 | ø 50 | 197.36 | 164 | 221.5 | 44 | 70 | 160 | 18 | 16 | 29.7 | 68 | 115 | 85 | 14 |
| 25 | ø 63 | 216.36 | 182 | 239.5 | 50.5 | 84.4 | 160 | 18 | 16 | 29.7 | 68 | 115 | 85 | 14 |
| 25 | ø 90 | 256.36 | 222 | 279.5 | 66.2 | 116.4 | 160 | 18 | 16 | 29.7 | 68 | 115 | 85 | 14 |
| 32 | ø 50 | 202.5 | 168 | 238 | 44 | 70 | 180 | 18 | 16 | 38.4 | 78 | 140 | 100 | 18 |
| 32 | ø 63 | 220.5 | 186 | 256 | 50.5 | 84.4 | 180 | 18 | 16 | 38.4 | 78 | 140 | 100 | 18 |
| 32 | ø 90 | 260.5 | 226 | 296 | 66.2 | 116.4 | 180 | 18 | 16 | 38.4 | 78 | 140 | 100 | 18 |
| 32 | ø 110 | 296.5 | 261 | 331 | 77.4 | 140.6 | 180 | 18 | 16 | 38.4 | 78 | 140 | 100 | 18 |
| 40 | ø 63 | 228.6 | 190 | 265 | 50.5 | 84.4 | 200 | 18 | 15 | 44.3 | 88 | 150 | 110 | 18 |
| 40 | ø 90 | 268.6 | 230 | 305 | 66.2 | 116.4 | 200 | 18 | 15 | 44.3 | 88 | 150 | 110 | 18 |
| 40 | ø 110 | 304.2 | 266 | 341 | 77.4 | 140.6 | 200 | 18 | 15 | 44.3 | 88 | 150 | 110 | 18 |
| 50 | ø 63 | 241.87 | 200 | 282.5 | 50.5 | 84.4 | 230 | 18 | 15 | 55.7 | 102 | 165 | 125 | 18 |
| 50 | ø 90 | 281.87 | 240 | 322.5 | 66.2 | 116.4 | 230 | 18 | 15 | 55.7 | 102 | 165 | 125 | 18 |
| 50 | ø 110 | 317.87 | 276 | 358.5 | 77.4 | 140.6 | 230 | 18 | 15 | 55.7 | 102 | 165 | 125 | 18 |

Standard executions are in bold

N.C. Normally Closed bidirectional. With the flow coming from below the plug you avoid water hammering.

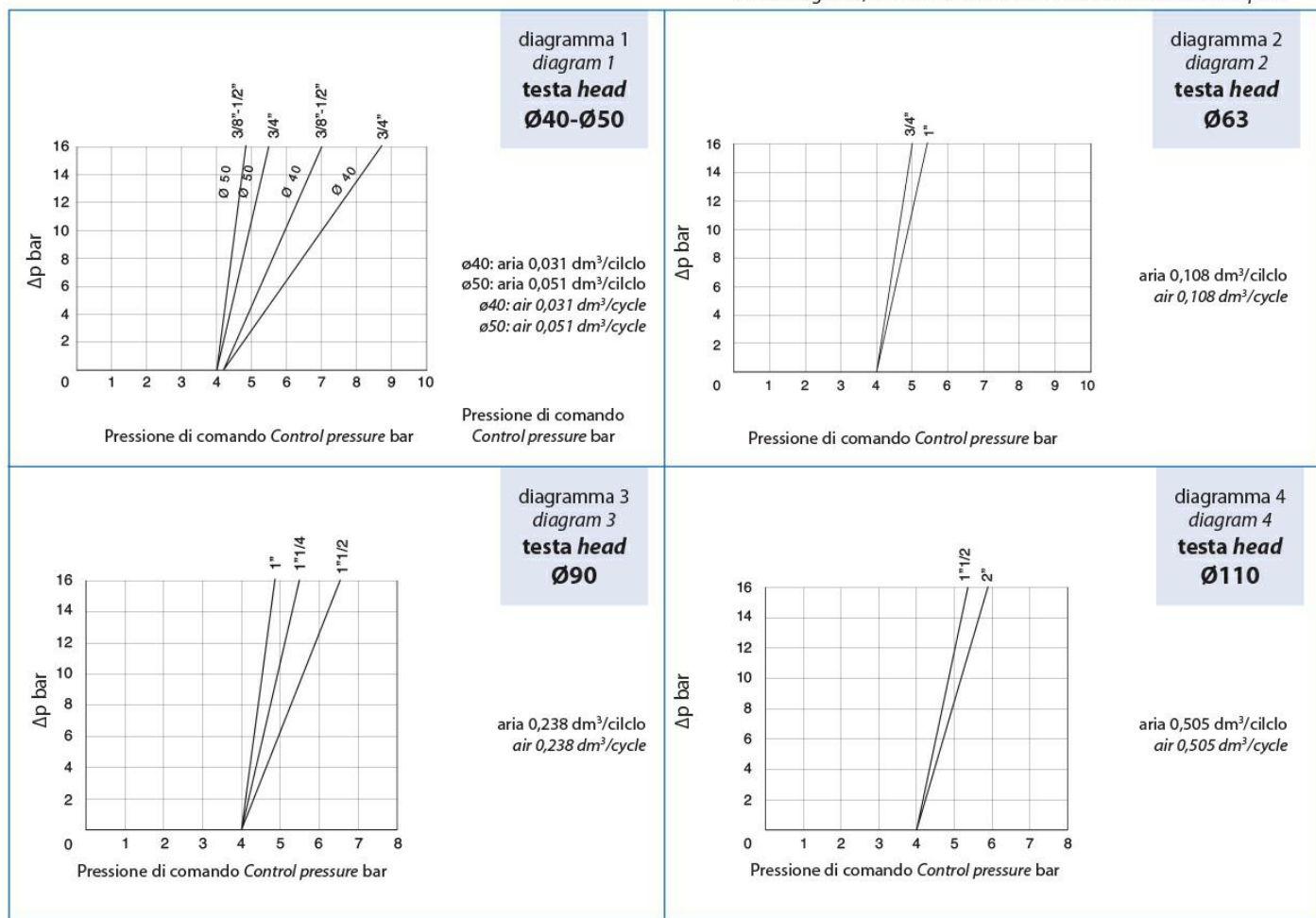
With the flow from below the plug

| code AISI316 | Threading | DN | KV m3/h | ø control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|-----------------|-----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4SPG1664 | 1/2" | 15 | 5,7 | 50 | 4 | 10 | 16 | 2,4 | KGJP1003 | J4SPG16R4 |
| J4SPG1665 | 3/4" | 20 | 10,5 | 50 | 4 | 10 | 10 | 3,2 | KGJP1005 | J4SPG16R5 |
| J4SPG1865 | 3/4" | 20 | 10,8 | 63 | 4 | 10 | 16 | 3,1 | KGJP1005 | J4SPG18R5 |
| J4SPG1866 | 1" | 25 | 20 | 63 | 4 | 10 | 11 | 3,8 | KGJP1006 | J4SPG18R6 |
| J4SPG2166 | 1" | 25 | 20 | 90 | 4 | 8 | 16 | 3,9 | KGJP1106 | J4SPG21R6 |
| J4SPG2167 | 1 1/4" | 32 | 29 | 90 | 4 | 8 | 14 | 6,6 | KGJP1107 | J4SPG21R7 |
| J4SPG2168 | 1 1/2" | 40 | 46 | 90 | 4 | 8 | 11 | 7,5 | KGJP1108 | J4SPG21R8 |
| J4SPG2368 | 1 1/2" | 40 | 46,5 | 110 | 4 | 8 | 16 | 8,1 | KGJP1108 | J4SPG23R8 |
| J4SPG2369 | 2" | 50 | 67 | 110 | 4 | 8 | 10 | 11,2 | KGJP1109 | J4SPG23R9 |

The repair kit includes the complete item except the valve body

With the flow from above the plug see diagrams below

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request

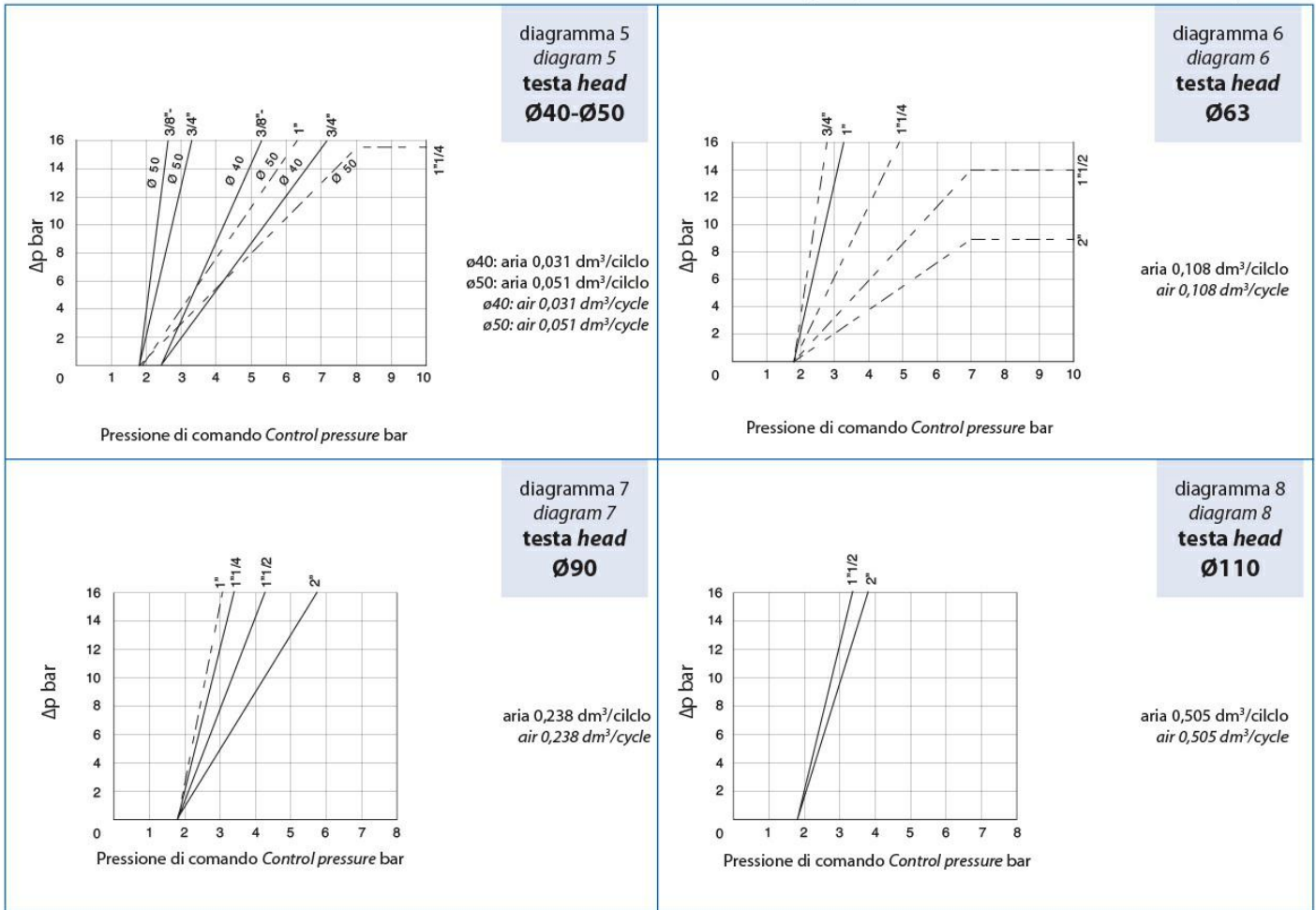


N.C. Normally Closed with the flow from above the plug

| code AIS1316 | Threading | DN | KV m3/h | ø control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AIS1316 | Plug spare kit | Head spare kit |
|-----------------|-----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4CPG1664 | 1/2" | 15 | 5,7 | 50 | 1,8 | 10 | diagram n° 5 | 1 | KGJP1003 | J4CPG16R4 |
| J4CPG1665 | 3/4" | 20 | 10,5 | 50 | 1,8 | 10 | diagram n° 5 | 1,2 | KGJP1005 | J4CPG16R5 |
| J4CPG1866 | 1" | 25 | 20 | 63 | 1,8 | 10 | diagram n° 6 | 1,6 | KGJP1006 | J4CPG18R6 |
| J4CPG2167 | 1 1/4" | 32 | 29 | 90 | 1,8 | 8 | diagram n° 7 | 3 | KGJP1107 | J4CPG21R7 |
| J4CPG2168 | 1 1/2" | 40 | 46 | 90 | 1,8 | 8 | diagram n° 7 | 3,7 | KGJP1108 | J4CPG21R8 |
| J4CPG2169 | 2" | 50 | 59 | 90 | 1,8 | 8 | diagram n° 7 | 4,4 | KGJP1109 | J4CPG21R9 |
| J4CPG2368 | 1 1/2" | 40 | 46,5 | 110 | 1,8 | 8 | diagram n° 8 | 4,6 | KGJP1108 | J4CPG23R8 |
| J4CPG2369 | 2" | 50 | 67 | 110 | 1,8 | 8 | diagram n° 8 | 5,6 | KGJP1109 | J4CPG23R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
 In the diagrams, the dash lines indicate versions available on request



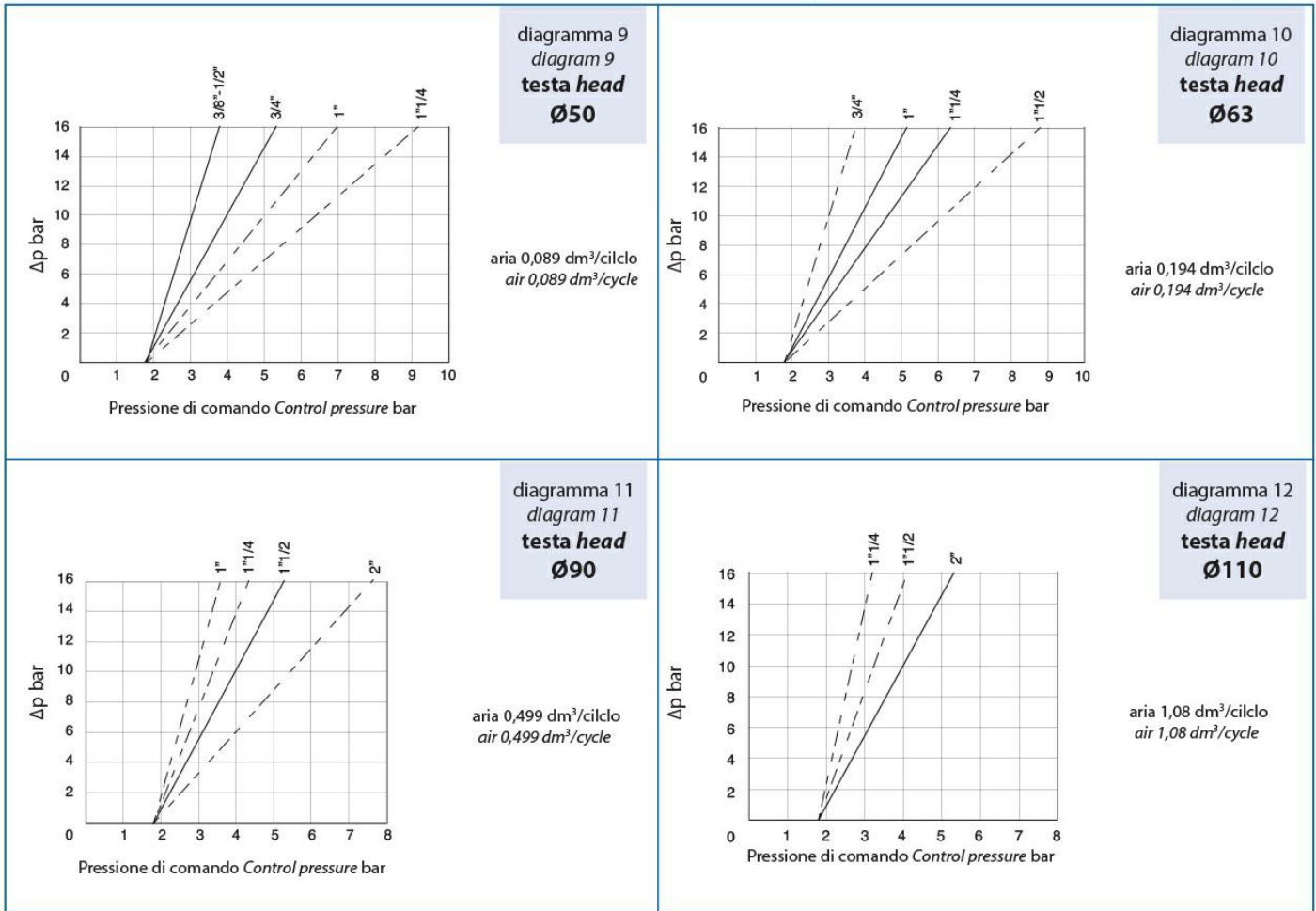
N.O. Normally Open with flow from below the plug

With the flow from below the plug

| Code AISI316 | Treading | DN | KV m ³ /h | Ø Control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|--------------|----------|----|----------------------|----------------|---------------|-----|-----------------------------|--------------------|----------------|----------------|
| | | | | | Min | Max | | | | |
| J4APG1664 | 1/2" | 15 | 5,7 | 50 | 1,8 | 10 | diagram n° 9 | 2,4 | KGJP1003 | J4APG16R4 |
| J4APG1665 | 3/4" | 20 | 10,5 | 50 | 1,8 | 10 | diagram n° 9 | 3,1 | KGJP1005 | J4APG16R5 |
| J4APG1866 | 1" | 25 | 20 | 63 | 1,8 | 10 | diagram n° 10 | 3,8 | KGJP1006 | J4APG18R6 |
| J4APG1867 | 1 1/4" | 32 | 28,5 | 63 | 1,8 | 10 | diagram n° 10 | 5,5 | KGJP1007 | J4APG18R7 |
| J4APG2168 | 1 1/2" | 40 | 46 | 90 | 1,8 | 8 | diagram n° 11 | 7,5 | KGJP1108 | J4APG21R8 |
| J4APG2369 | 2" | 50 | 67 | 110 | 1,8 | 8 | diagram n° 12 | 11,2 | KGJP1109 | J4APG23R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
 In the diagrams, the dash lines indicate versions available on request



Double Acting bidirectional

| code AISI316 | Treading | DN | KV m3/h | Ø control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|-----------------|----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4DPG1664 | 1/2" | 15 | 5,7 | 50 | 0,8 | 8 | diagram n° 13 | 2,4 | KGJP1003 | J4DPG16R4 |
| J4DPG1665 | 3/4" | 20 | 10,5 | 50 | 0,8 | 8 | diagram n° 13 | 3,1 | KGJP1005 | J4DPG16R5 |
| J4DPG1866 | 1" | 25 | 20 | 63 | 0,8 | 8 | diagram n° 14 | 3,8 | KGJP1006 | J4DPG18R6 |
| J4DPG1867 | 1 1/4" | 32 | 28,5 | 63 | 0,8 | 8 | diagram n° 14 | 5,5 | KGJP1007 | J4DPG18R7 |
| J4DPG1868 | 1 1/2" | 40 | 35 | 63 | 0,8 | 8 | diagram n° 14 | 6,3 | KGJP1008 | J4DPG18R8 |
| J4DPG2168 | 1 1/2" | 40 | 46 | 90 | 0,8 | 8 | diagram n° 15 | 7,5 | KGJP1108 | J4DPG21R8 |
| J4DPG2169 | 2" | 50 | 59 | 90 | 0,8 | 8 | diagram n° 15 | 9,3 | KGJP1009 | J4DPG21R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request

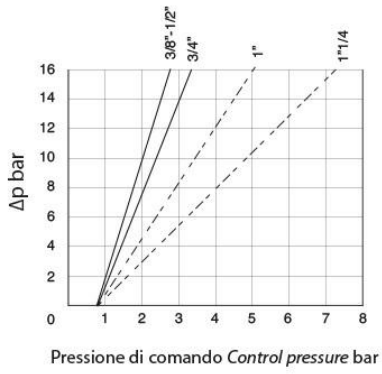


diagramma 13
 diagram 13
testa head
Ø50

aria 0,14 dm³/cilclo
 air 0,14 dm³/cycle

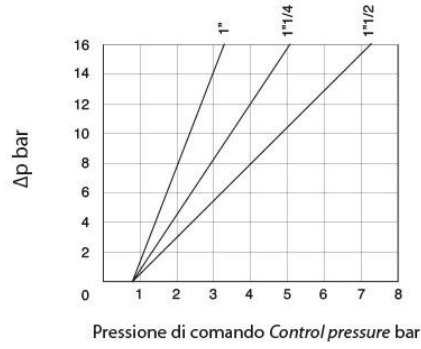


diagramma 14
 diagram 14
testa head
Ø63

aria 0,302 dm³/cilclo
 air 0,302 dm³/cycle

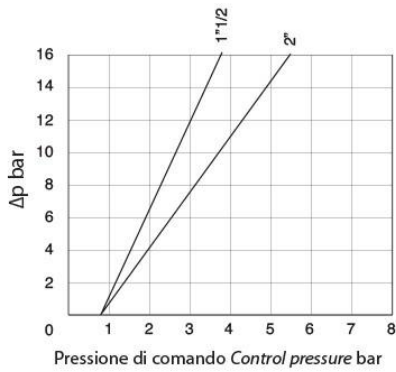


diagramma 15
 diagram 15
testa head
Ø90

aria 0,737 dm³/cilclo
 air 0,737 dm³/cycle

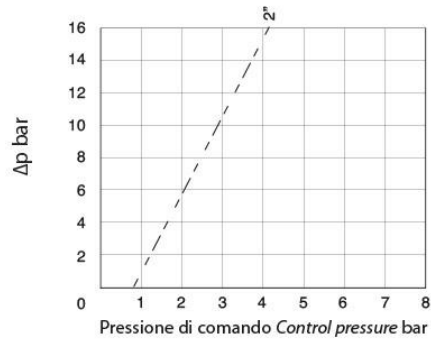


diagramma 16
 diagram 16
testa head
Ø110

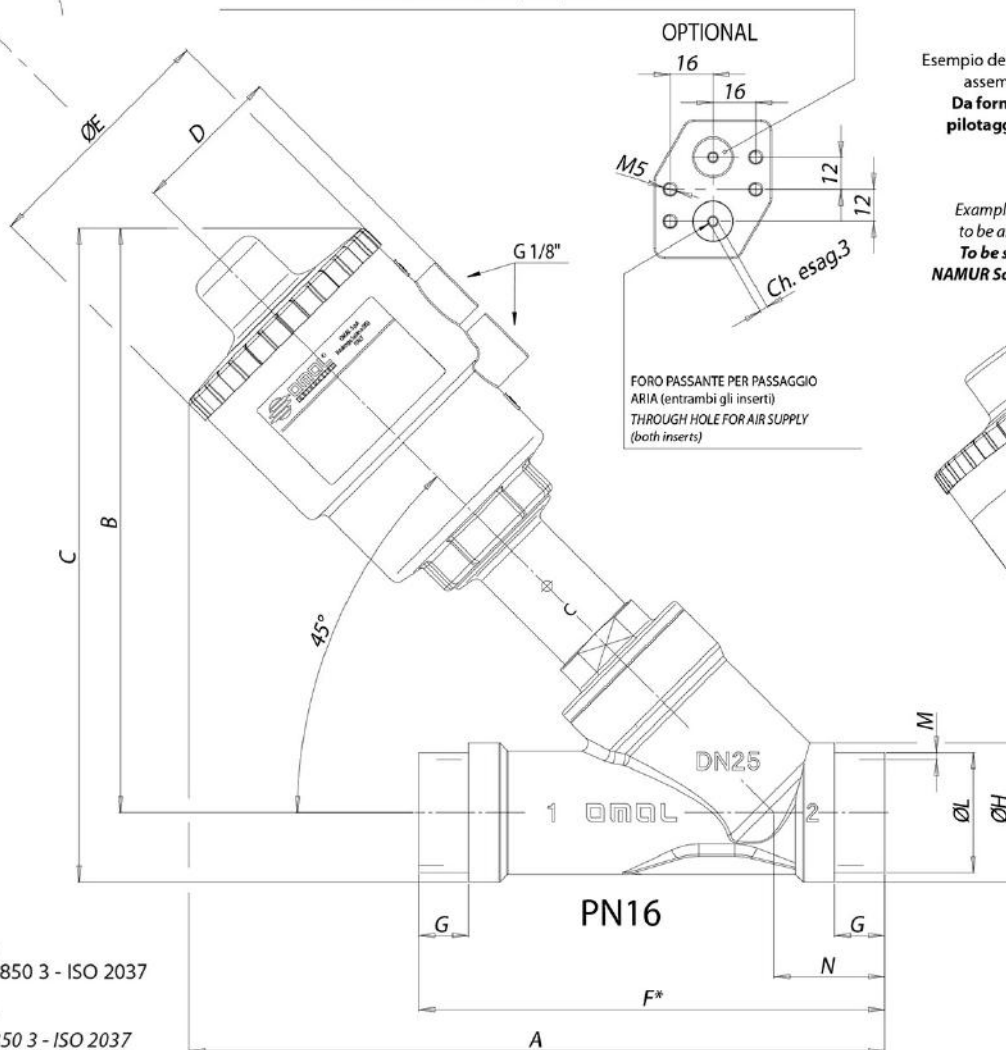
aria 1,585 dm³/cilclo
 air 1,585 dm³/cycle

Codes and dimensions - Solder connections UNI ISO 4200

Testa di comando orientabile a 360°
Control head adjustable at 360°

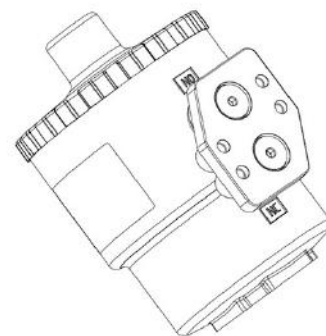
Ruotare in senso orario
Clockwise rotation

N°2 INSERTI FILETTATI DA G 1/8" PER LO STAFFAGGIO
DELL' INTERFACCIA EN 15714-3 (Namur) ALLA TESTA DI COMANDO
N°2 THREADED INSERTS G 1/8" FOR CLAMPING
THE INTERFACE EN 15714-3 (Namur) TO THE CONTROL HEAD



Esempio dell'interfaccia EN 15714-3 (Namur)
assemblata alla testa di comando
**Da fornire A RICHIESTA nel caso di
pilotaggio di elettrovalvola NAMUR**
Codice: KBNJ0001

Example of NAMUR plate EN 15714-3
to be assembled on the control head
**To be supplied ON REQUEST once
NAMUR Solenoid valve should be needed**
Code: KBNJ0001



A richiesta versioni:
DIN 11850 2 - DIN 11850 3 - ISO 2037

On request versions:
DIN 11850 2 - DIN 11850 3 - ISO 2037

| DN | Control head | A | B | C | D | øE | F * | G | øH | øL | M | N |
|----|--------------|-----|-----|-----|------|-------|-----|----|------|------|-----|-------|
| 15 | ø 50 | 180 | 156 | 170 | 44 | 70 | 100 | 12 | 26,3 | 21,3 | 1,6 | 26 |
| 20 | ø 50 | 190 | 160 | 177 | 44 | 70 | 115 | 14 | 33 | 26,9 | 1,6 | 31 |
| 20 | ø 63 | 208 | 178 | 195 | 50,5 | 84,4 | 115 | 14 | 33 | 26,9 | 1,6 | 31 |
| 25 | ø 50 | 165 | 164 | 184 | 44 | 70 | 130 | 14 | 39 | 33,7 | 2 | 32.96 |
| 25 | ø 63 | 214 | 182 | 202 | 50,5 | 84,4 | 130 | 14 | 39 | 33,7 | 2 | 32.96 |
| 25 | ø 90 | 254 | 222 | 242 | 66,2 | 116,4 | 130 | 14 | 39 | 33,7 | 2 | 32.96 |
| 32 | ø 50 | 200 | 168 | 193 | 44 | 70 | 145 | 14 | 49 | 42,4 | 2 | 34 |
| 32 | ø 63 | 218 | 186 | 211 | 50,5 | 84,4 | 145 | 14 | 49 | 42,4 | 2 | 34 |
| 32 | ø 90 | 258 | 226 | 251 | 66,2 | 116,4 | 145 | 14 | 49 | 42,4 | 2 | 34 |
| 32 | ø 110 | 294 | 261 | 286 | 77,4 | 140,6 | 145 | 14 | 49 | 42,4 | 2 | 34 |
| 40 | ø 63 | 226 | 190 | 218 | 50,5 | 84,4 | 160 | 14 | 55 | 48,3 | 2 | 37.6 |
| 40 | ø 90 | 266 | 230 | 258 | 66,2 | 116,4 | 160 | 14 | 55 | 48,3 | 2 | 37.6 |
| 40 | ø 110 | 302 | 266 | 294 | 77,4 | 140,6 | 160 | 14 | 55 | 48,3 | 2 | 37.6 |

| | | | | | | | | | | | | |
|-----------|--------------|------------|------------|------------|-------------|--------------|------------|-----------|-------------|-------------|------------|--------------|
| 50 | ø 63 | 241 | 200 | 234 | 50,5 | 84,4 | 175 | 16 | 67,4 | 60,3 | 2,3 | 41.37 |
| 50 | ø 90 | 281 | 240 | 274 | 66,2 | 116,4 | 175 | 16 | 67,4 | 60,3 | 2,3 | 41.37 |
| 50 | ø 110 | 317 | 276 | 310 | 77,4 | 140,6 | 175 | 16 | 67,4 | 60,3 | 2,3 | 41.37 |

Standard executions are in bold

N.C. Normally Closed bidirectional. With the flow coming from below the plug you avoid water hammering.

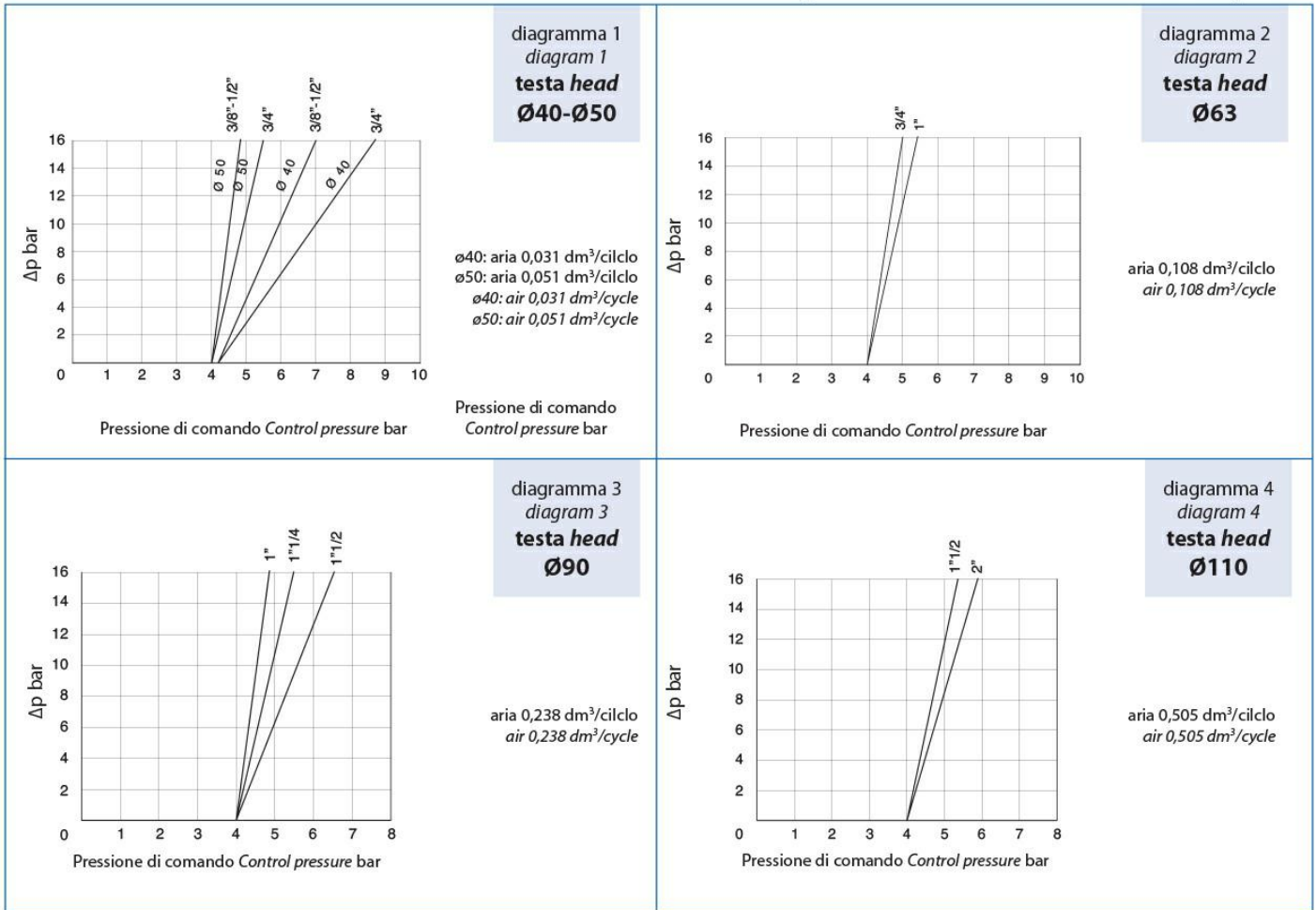
With the flow from below the plug

| Code AISI316 | Threading | DN | KV m3/h | ø Control Head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|-----------------|-----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4SPG1694 | 1/2" | 15 | 5,7 | 50 | 4 | 10 | 16 | 1 | KGJP1003 | J4SPG16R4 |
| J4SPG1695 | 3/4" | 20 | 10,5 | 50 | 4 | 10 | 10 | 1,2 | KGJP1005 | J4SPG16R5 |
| J4SPG1895 | 3/4" | 20 | 10,8 | 63 | 4 | 10 | 16 | 1,2 | KGJP1005 | J4SPG18R5 |
| J4SPG1896 | 1" | 25 | 20 | 63 | 4 | 10 | 11 | 1,6 | KGJP1006 | J4SPG18R6 |
| J4SPG2196 | 1" | 25 | 20 | 90 | 4 | 8 | 16 | 1,7 | KGJP1106 | J4SPG21R6 |
| J4SPG2197 | 1 1/4" | 32 | 29 | 90 | 4 | 8 | 14 | 3 | KGJP1107 | J4SPG21R7 |
| J4SPG2198 | 1 1/2" | 40 | 46 | 90 | 4 | 8 | 11 | 3,4 | KGJP1108 | J4SPG21R8 |
| J4SPG2398 | 1 1/2" | 40 | 46,5 | 110 | 4 | 8 | 16 | 4 | KGJP1108 | J4SPG23R8 |
| J4SPG2399 | 2" | 50 | 67 | 110 | 4 | 8 | 10 | 5,8 | KGJP1109 | J4SPG23R9 |

The repair kit includes the complete item except the valve body

With the flow from above the plug see diagrams below

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
 In the diagrams, the dash lines indicate versions available on request

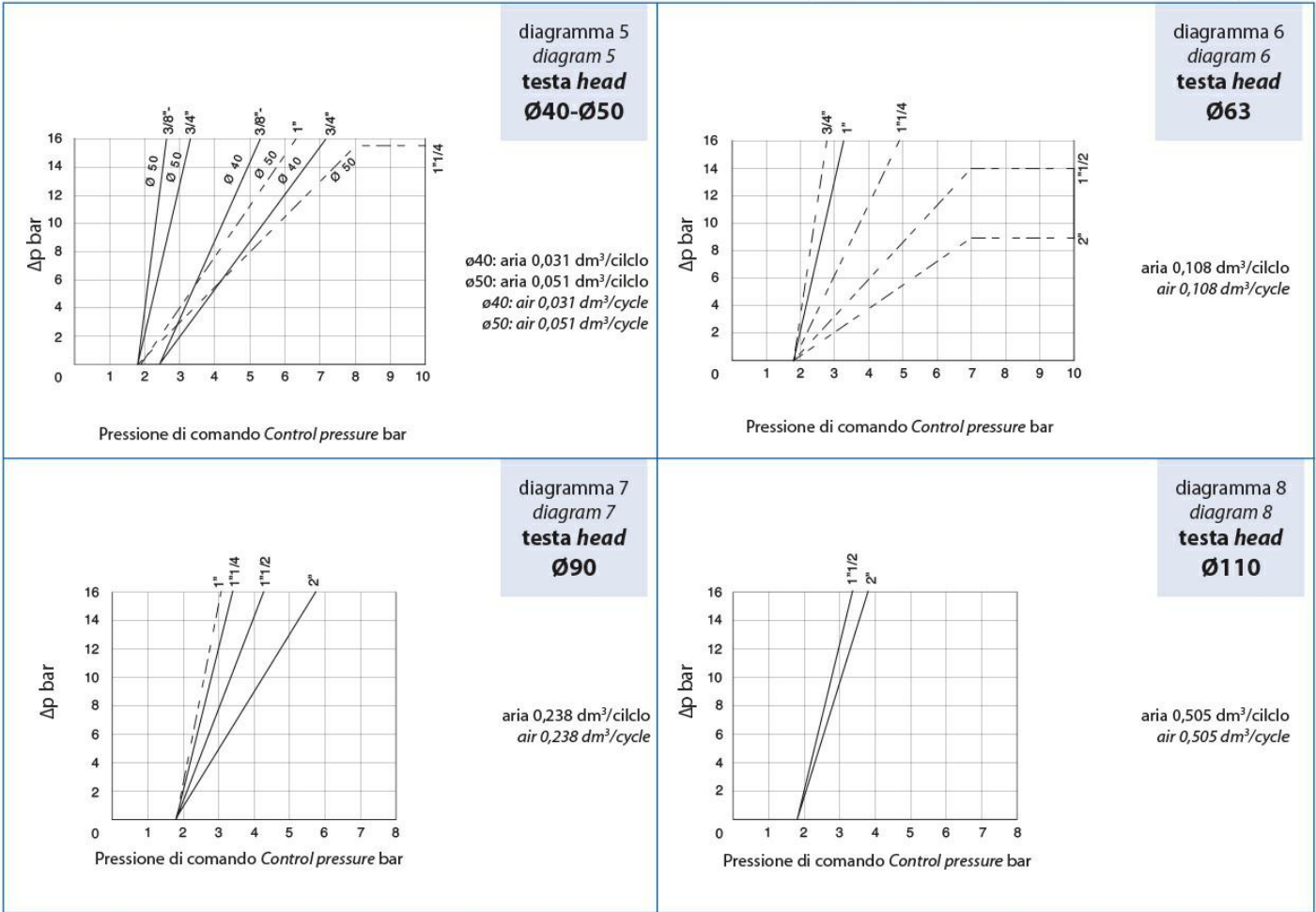


N.C. Normally Closed with the flow from above the plug

| Code AISI316 | Threadinf | DN | KV m3/h | ø Control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|-----------------|-----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4CPG1694 | 1/2" | 15 | 5,7 | 50 | 1,8 | 10 | diagram n° 5 | 1 | KGJP1003 | J4CPG16R4 |
| J4CPG1695 | 3/4" | 20 | 10,5 | 50 | 1,8 | 10 | diagram n° 5 | 1,2 | KGJP1005 | J4CPG16R5 |
| J4CPG1896 | 1" | 25 | 20 | 63 | 1,8 | 10 | diagram n° 6 | 1,6 | KGJP1006 | J4CPG18R6 |
| J4CPG2197 | 1 1/4" | 32 | 29 | 90 | 1,8 | 8 | diagram n° 7 | 3 | KGJP1107 | J4CPG21R7 |
| J4CPG2198 | 1 1/2" | 40 | 46 | 90 | 1,8 | 8 | diagram n° 7 | 3,7 | KGJP1108 | J4CPG21R8 |
| J4CPG2109 | 2" | 50 | 59 | 90 | 1,8 | 8 | diagram n° 7 | 4,4 | KGJP1109 | J4CPG21R9 |
| J4CPG2398 | 1 1/2" | 40 | 46,5 | 110 | 1,8 | 8 | diagram n° 8 | 4,6 | KGJP1108 | J4CPG23R8 |
| J4CPG2399 | 2" | 50 | 67 | 110 | 1,8 | 8 | diagram n° 8 | 5,6 | KGJP1109 | J4CPG23R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
 In the diagrams, the dash lines indicate versions available on request



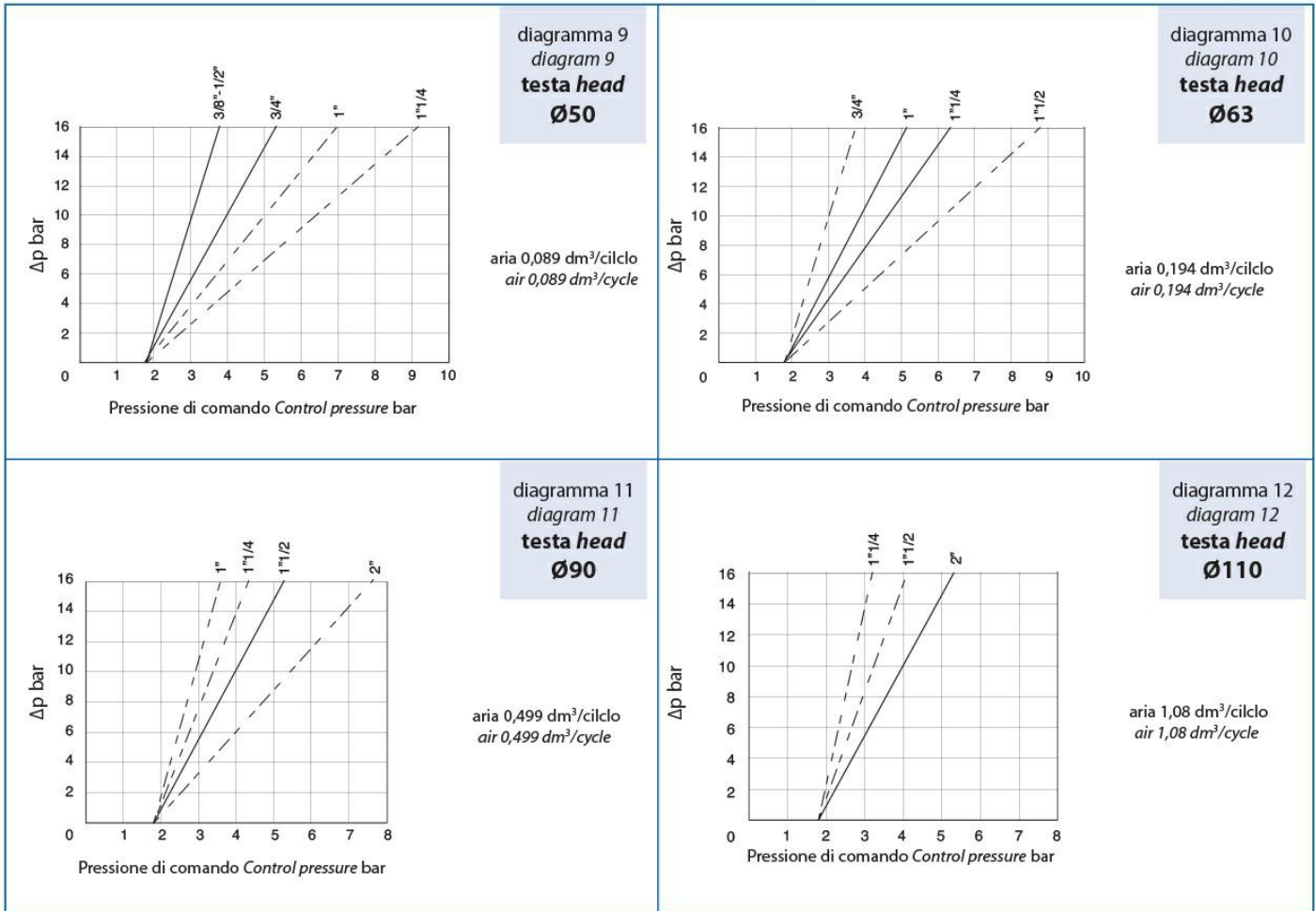
N.O. Normally Open with flow from below the plug

With the flow from below the plug

| Code AISI316 | Threading | DN | KV m3/h | ø Control Head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|--------------|-----------|----|---------|----------------|---------------|-----|-----------------------------|--------------------|----------------|----------------|
| | | | | | Min | Max | | | | |
| J4APG1694 | 1/2" | 15 | 5,7 | 50 | 1,8 | 10 | diagram n° 9 | 1 | KGJP1003 | J4APG16R4 |
| J4APG1695 | 3/4" | 20 | 10,5 | 50 | 1,8 | 10 | diagram n° 9 | 1,2 | KGJP1005 | J4APG16R5 |
| J4APG1896 | 1" | 25 | 20 | 63 | 1,8 | 10 | diagram n° 10 | 1,6 | KGJP1006 | J4APG18R6 |
| J4APG1897 | 1 1/4" | 32 | 28,5 | 63 | 1,8 | 10 | diagram n° 10 | 2 | KGJP1007 | J4APG18R7 |
| J4APG2198 | 1 1/2" | 40 | 46 | 90 | 1,8 | 8 | diagram n° 11 | 3,7 | KGJP1108 | J4APG21R8 |
| J4APG2399 | 2" | 50 | 67 | 110 | 1,8 | 8 | diagram n° 12 | 5,6 | KGJP1109 | J4APG23R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
 In the diagrams, the dash lines indicate versions available on request



Double acting bidirectional

| Code AISI316 | Threading | DN | KV m3/h | ø Control head | p control bar | | p operating bar ΔP max. bar | Weight Kg. AISI316 | Plug spare kit | Head spare kit |
|-----------------|-----------|----|------------|-------------------|------------------|-----|--------------------------------|-----------------------|-------------------|-------------------|
| | | | | | Min | Max | | | | |
| J4DPG1694 | 1/2" | 15 | 5,7 | 50 | 0,8 | 8 | diagram n° 13 | 1 | KGJP1003 | J4DPG16R4 |
| J4DPG1695 | 3/4" | 20 | 10,5 | 50 | 0,8 | 8 | diagram n° 13 | 1,2 | KGJP1005 | J4DPG16R5 |
| J4DPG1896 | 1" | 25 | 20 | 63 | 0,8 | 8 | diagram n° 14 | 1,6 | KGJP1006 | J4DPG18R6 |
| J4DPG1897 | 1 1/4" | 32 | 28,5 | 63 | 0,8 | 8 | diagram n° 14 | 1,9 | KGJP1007 | J4DPG18R7 |
| J4DPG1898 | 1 1/2" | 40 | 35 | 63 | 0,8 | 8 | diagram n° 14 | 2,3 | KGJP1008 | J4DPG18R8 |
| J4DPG2198 | 1 1/2" | 40 | 46 | 90 | 0,8 | 8 | diagram n° 15 | 3,6 | KGJP1108 | J4DPG21R8 |
| J4DPG2199 | 2" | 50 | 59 | 90 | 0,8 | 8 | diagram n° 15 | 4,3 | KGJP1009 | J4DPG21R9 |

The repair kit includes the complete item except the valve body

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request

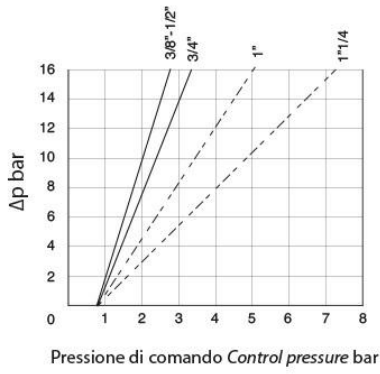


diagramma 13
 diagram 13
testa head
Ø50

aria 0,14 dm³/cilclo
 air 0,14 dm³/cycle

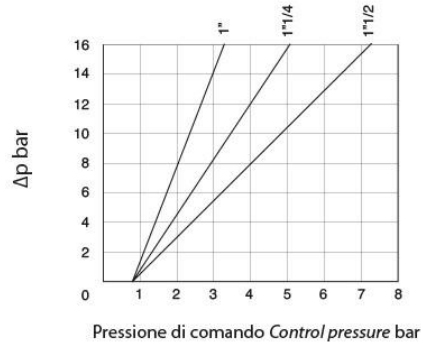


diagramma 14
 diagram 14
testa head
Ø63

aria 0,302 dm³/cilclo
 air 0,302 dm³/cycle

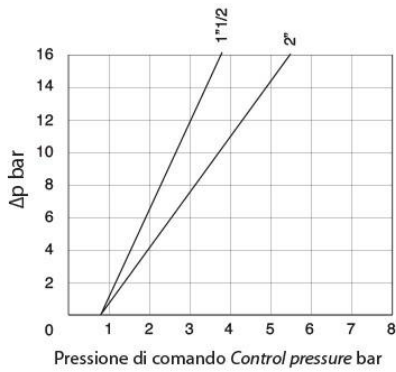


diagramma 15
 diagram 15
testa head
Ø90

aria 0,737 dm³/cilclo
 air 0,737 dm³/cycle

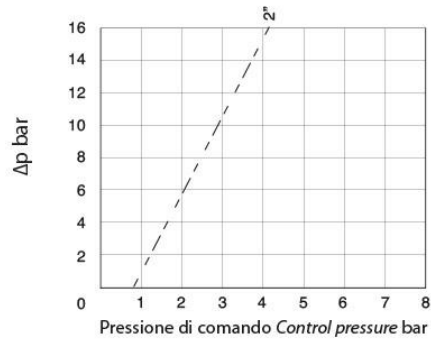


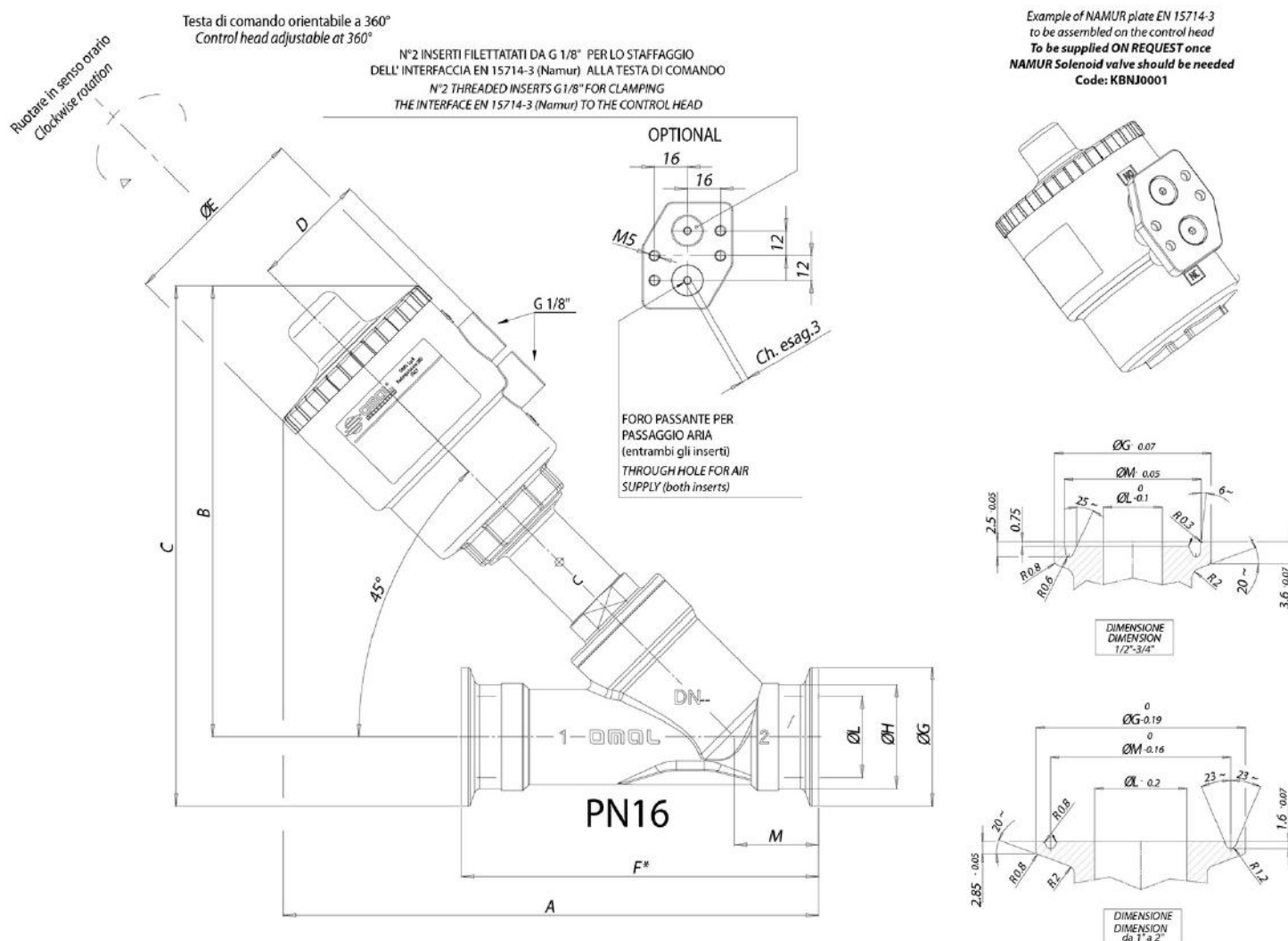
diagramma 16
 diagram 16
testa head
Ø110

aria 1,585 dm³/cilclo
 air 1,585 dm³/cycle

Codes and dimensions - Connections CLAMP 3A

Esempio dell'interfaccia EN 15714-3 (Namura) assemblata alla testa di comando
Da fornire A RICHIESTA nel caso di pilotaggio di elettrovalvola NAMUR
 Codice: KBNJ0001

Example of NAMUR plate EN 15714-3 to be assembled on the control head
To be supplied ON REQUEST once NAMUR Solenoid valve should be needed
 Code: KBNJ0001



Pressure from 0 to 16 bar (steam from 180 °C, from 0 to 10 bar) depending on the size and model chosen (see catalog pag. V2.13-V2.14-V2.15-V2.16)

| CLAMP Size | Control head | Bore (mm) | A | B | C | D | øE | F * | øG | øH | øL | M |
|------------|--------------|-----------|-------|-----|-------|------|-------|-------|------|----|------|------|
| 1/2" | ø 50 | 9,5(*) | 179 | 156 | 168,6 | 44 | 70 | 88,9 | 25,2 | 19 | 9,5 | 22 |
| 3/4" | ø 50 | 15 | 181,5 | 156 | 168,6 | 44 | 70 | 101,6 | 25,2 | 19 | 15,8 | 22 |
| 1" | ø 50 | 20 | 189,3 | 160 | 185,3 | 44 | 70 | 114,3 | 50,5 | 32 | 22,2 | 43,5 |
| 1" | ø 63 | 20 | 207,3 | 178 | 203,3 | 50,5 | 84,4 | 114,3 | 50,5 | 23 | 22,2 | 43,5 |
| 1 1/2" | ø 63 | 32 | 214,6 | 186 | 211,3 | 50,5 | 84,4 | 139,7 | 50,5 | 38 | 34,9 | 43,5 |
| 1 1/2" | ø 90 | 32 | 254,6 | 226 | 251,3 | 66,2 | 116,4 | 139,7 | 50,5 | 38 | 34,9 | 43,5 |
| 1 1/2" | ø 110 | 32 | 290,6 | 261 | 286,3 | 77,4 | 140,6 | 139,7 | 50,5 | 38 | 34,9 | 43,5 |
| 2" | ø 63 | 40 | 224,7 | 190 | 222 | 50,5 | 84,4 | 158,8 | 64 | 54 | 47,6 | 56,5 |
| 2" | ø 90 | 40 | 264,7 | 230 | 262 | 66,2 | 116,4 | 158,8 | 64 | 54 | 47,6 | 56,5 |
| 2" | ø 110 | 40 | 300,7 | 266 | 298 | 77,4 | 140,6 | 158,8 | 64 | 54 | 47,6 | 56,5 |

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore

Be environmentally friendly...please don't print this document unless you really need to.

Standard executions are in bold.

CLAMP 3A - N.C. NORMALLY CLOSED BIDIRECTIONAL

With the flow coming from below the plug you avoid water hammering

| code aisi 316 | CLAMP SIZE | Bore mm | Kv m3/h | Ø control head | p control bar | | p operating ΔP max. bar | Weight Kg. AISI 316 | PLUG SPARE KIT | HEAD SPARE KIT |
|---------------|------------|---------|---------|----------------|---------------|-----|-------------------------|---------------------|----------------|----------------|
| | | | | | Min | Max | | | | |
| J4SPG16U4 | 1/2" | 9,5(*) | 3,4 | 50 | 4 | 10 | 16 | 1 | KGJP1003 | J4SPG16R4 |
| J4SPG16U5 | 3/4" | 15 | 5,7 | 50 | 4 | 10 | 16 | 1,1 | KGJP1004 | J4SPG16R4 |
| J4SPG16U6 | 1" | 20 | 10,5 | 50 | 4 | 10 | 10 | 1,2 | KGJP1005 | J4SPG16R5 |
| J4SPG18U6 | 1" | 20 | 10,5 | 63 | 4 | 10 | 16 | 1,4 | KGJP1005 | J4SPG18R5 |
| J4SPG21U8 | 1 1/2" | 32 | 29 | 90 | 4 | 8 | 14 | 3 | KGJP1107 | J4SPG21R7 |
| J4SPG23U8 | 1 1/2" | 32 | 29,5 | 110 | 4 | 8 | 16 | 3,3 | KGJP1107 | J4SPG23R7 |
| J4SPG21U9 | 2" | 40 | 46 | 90 | 4 | 8 | 11 | 3,4 | KGJP1108 | J4SPG21R8 |
| J4SPG23U9 | 2" | 40 | 46,5 | 110 | 4 | 8 | 16 | 4 | KGJP1108 | J4SPG23R8 |

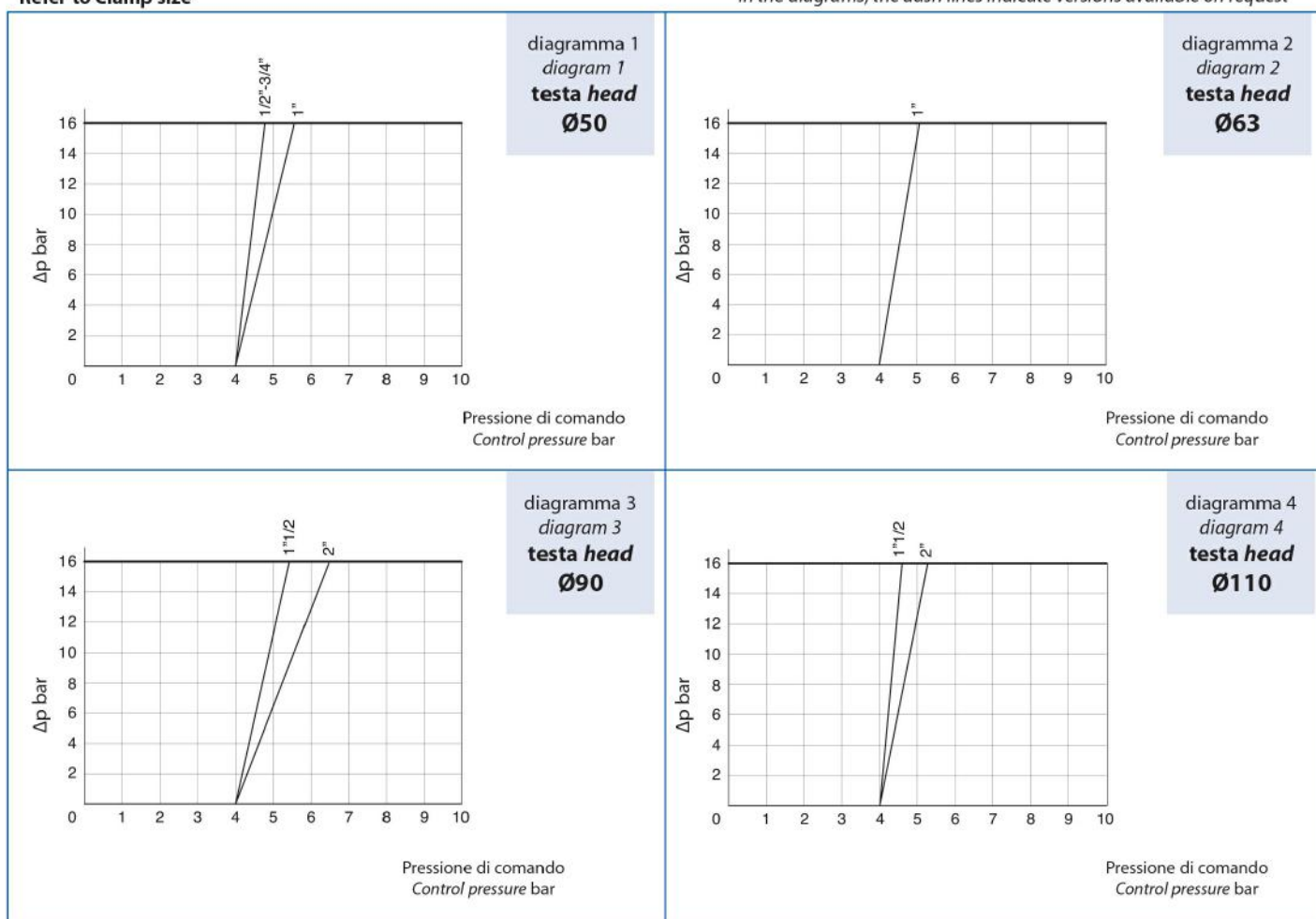
The repair kit includes the complete item except the valve body

With the flow from above the plug see diagrams below

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore

Misure riferite alla dimensione Clamp Refer to Clamp size

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request



CLAMP 3A - N.C. NORMALLY CLOSED

With the flow from above the plug.

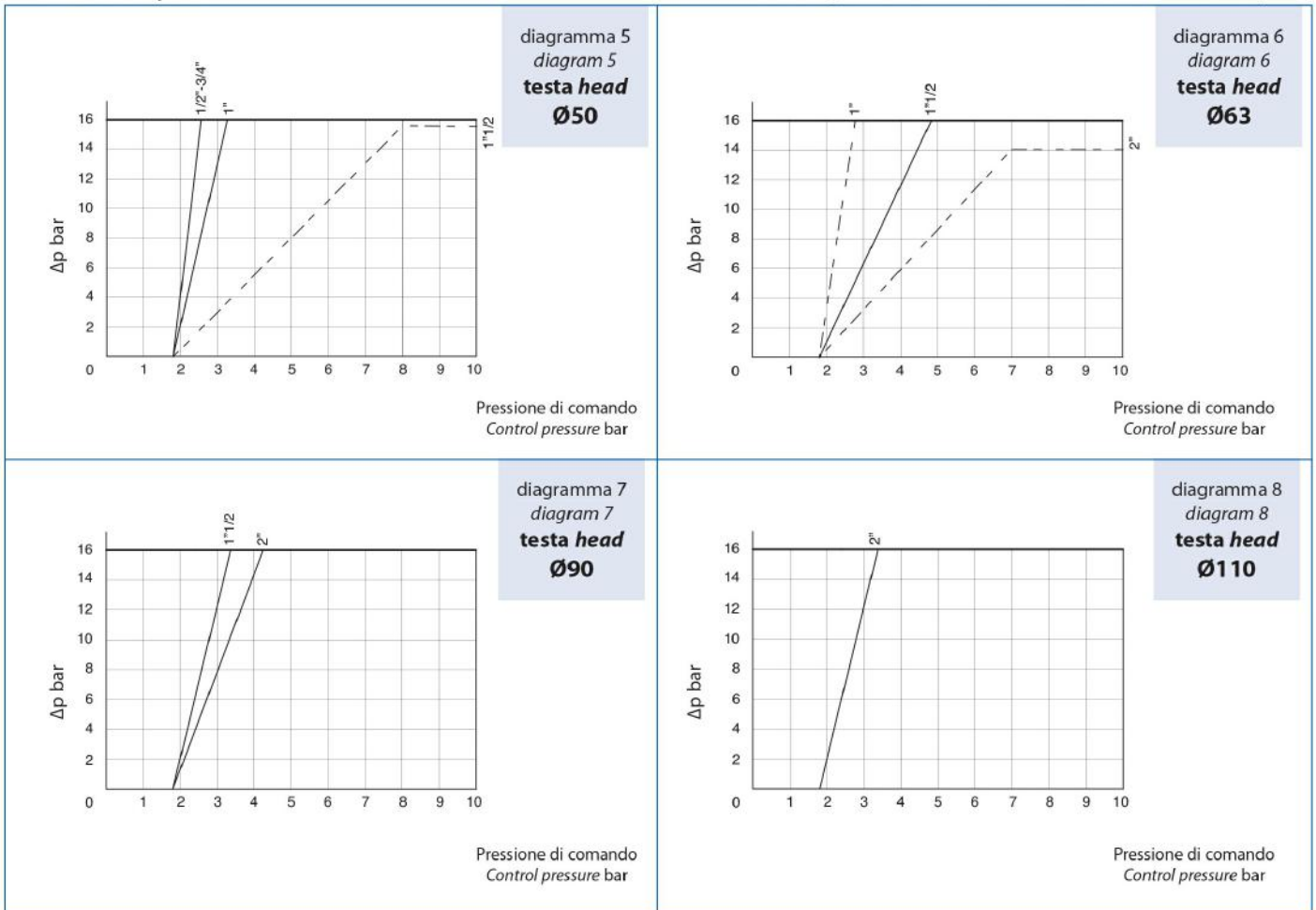
| code aisi 316 | CLAMP SIZE | Bore mm | Kv m3/h | ∅ control head | p control bar Min Max | | p operating ΔP max. bar | Weight Kg. AISI 316 | PLUG SPARE KIT | HEAD SPARE KIT |
|---------------|------------|---------|---------|----------------|-----------------------------|----|-------------------------|---------------------|----------------|----------------|
| J4CPG16U4 | 1/2" | 9,5(*) | 3,4 | 50 | 1,8 | 10 | DIAGRAM N° 5 | 1 | KGJP1003 | J4CPG16R4 |
| J4CPG16U5 | 3/4" | 15 | 5,7 | 50 | 1,8 | 10 | DIAGRAM N° 5 | 1,1 | KGJP1004 | J4CPG16R4 |
| J4CPG16U6 | 1" | 20 | 10,5 | 50 | 1,8 | 10 | DIAGRAM N° 5 | 1,2 | KGJP1005 | J4CPG16R5 |
| J4CPG16U6 | 1" | 20 | 10,5 | 63 | 1,8 | 10 | DIAGRAM N° 6 | 1,4 | KGJP1005 | J4CPG18R5 |
| J4CPG18U8 | 1 1/2" | 32 | 28,5 | 63 | 1,8 | 10 | DIAGRAM N° 6 | 2,6 | KGJP1007 | J4CPG18R7 |
| J4CPG21U8 | 1 1/2" | 32 | 29 | 90 | 1,8 | 8 | DIAGRAM N° 7 | 3 | KGJP1107 | J4CPG21R7 |
| J4CPG21U9 | 2" | 40 | 46 | 90 | 1,8 | 8 | DIAGRAM N° 7 | 3,7 | KGJP1108 | J4CPG21R8 |
| J4CPG23U9 | 2" | 40 | 46,5 | 110 | 1,8 | 8 | DIAGRAM N° 8 | 4,6 | KGJP1108 | J4CPG23R8 |

With the flow from above the plug see diagrams below

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore

Misure riferite alla dimensione Clamp
Refer to Clamp size

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request



CLAMP 3A - N.C. NORMALLY OPEN

With the flow from below the plug

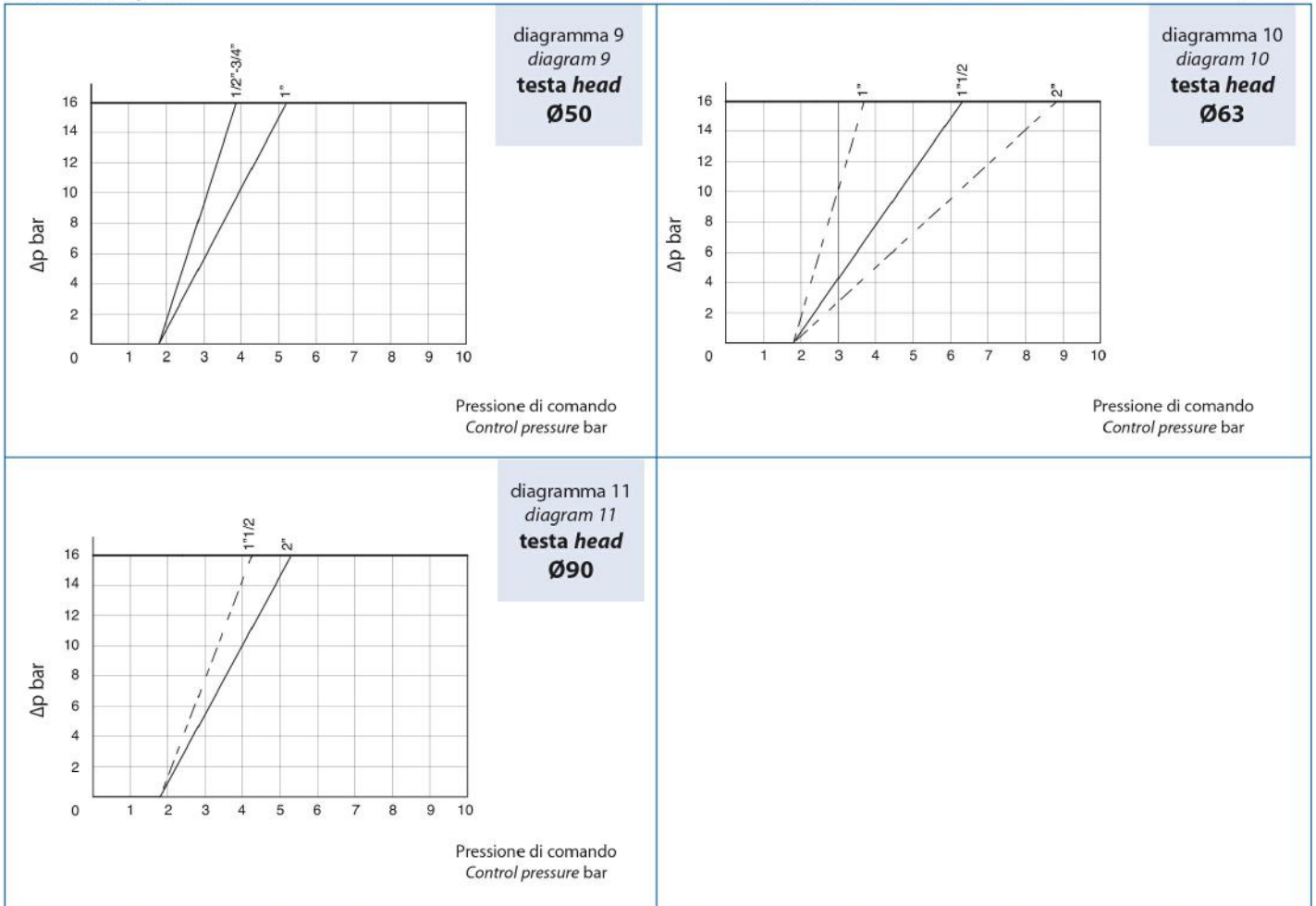
| code aisi 316 | CLAMP SIZE | Bore mm | Kv m3/h | ø control head | p control bar Min Max | | p operating ΔP max. bar | Weight Kg. AISI 316 | PLUG SPARE KIT | HEAD SPARE KIT |
|------------------|---------------|------------|------------|-------------------|--------------------------------|----|----------------------------|------------------------|-------------------|-------------------|
| J4APG16U4 | 1/2" | 9,5(*) | 3,4 | 50 | 1,8 | 10 | DIAGRAM N° 9 | 1 | KGJP1003 | J4APG16R4 |
| J4APG16U5 | 3/4" | 15 | 5,7 | 50 | 1,8 | 10 | DIAGRAM N° 9 | 1,1 | KGJP1004 | J4APG16R4 |
| J4APG16U6 | 1" | 20 | 10,5 | 50 | 1,8 | 10 | DIAGRAM N° 9 | 1,2 | KGJP1005 | J4APG16R5 |
| J4APG18U8 | 1 1/2" | 32 | 28,5 | 63 | 1,8 | 10 | DIAGRAM N° 10 | 2,6 | KGJP1007 | J4APG18R7 |
| J4APG21U9 | 2" | 40 | 46 | 90 | 1,8 | 8 | DIAGRAM N° 11 | 3,7 | KGJP1108 | J4APG21R8 |

The repair kit includes the complete item except the valve body

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore

Misure riferite alla dimensione Clamp
Refer to Clamp size

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request



CLAMP 3A - DOUBLE ACTING BIDIRECTIONAL

| code aisi 316 | CLAMP SIZE | Bore mm | Kv m3/h | Ø control head | p control bar Min Max | | p operating ΔP max. bar | Weight Kg. AISI 316 | PLUG SPARE KIT | HEAD SPARE KIT |
|---------------|------------|---------|---------|----------------|-----------------------------|---|-------------------------|---------------------|----------------|----------------|
| J4DPG16U4 | 1/2" | 9,5(*) | 3,4 | 50 | 0,8 | 8 | DIAGRAM N° 13 | 1 | KGJP1003 | J4DPG16R4 |
| J4DPG16U5 | 3/4" | 15 | 5,7 | 50 | 0,8 | 8 | DIAGRAM N° 13 | 1,1 | KGJP1004 | J4DPG16R4 |
| J4DPG16U6 | 1" | 20 | 10,5 | 50 | 0,8 | 8 | DIAGRAM N° 13 | 1,2 | KGJP1005 | J4DPG16R5 |
| J4DPG18U8 | 1 1/2" | 32 | 28,5 | 63 | 0,8 | 8 | DIAGRAM N° 14 | 2 | KGJP1007 | J4DPG18R7 |
| J4DPG18U9 | 2" | 40 | 35 | 63 | 0,8 | 8 | DIAGRAM N° 14 | 2,3 | KGJP1008 | J4DPG18R8 |
| J4DPG21U9 | 2" | 40 | 46 | 90 | 0,8 | 8 | DIAGRAM N° 15 | 3,6 | KGJP1108 | J4SPG21R8 |

The repair kit includes the complete item except the valve body

(*) The valve bore is 15 mm, reduction to 9,5 mm is due to clamp bore

Misure riferite alla dimensione Clamp
Refer to Clamp size

Nei diagrammi le linee tratteggiate indicano le versioni disponibili a richiesta
In the diagrams, the dash lines indicate versions available on request

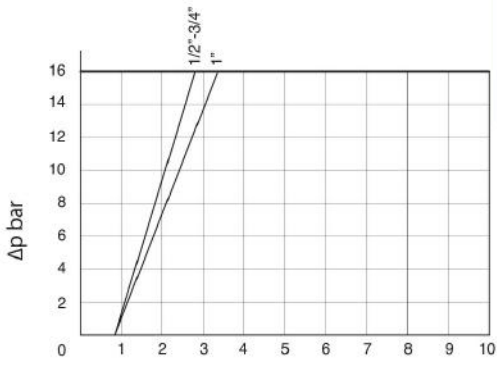


diagramma 13
 diagram 13
testa head
Ø50

Pressione di comando
 Control pressure bar

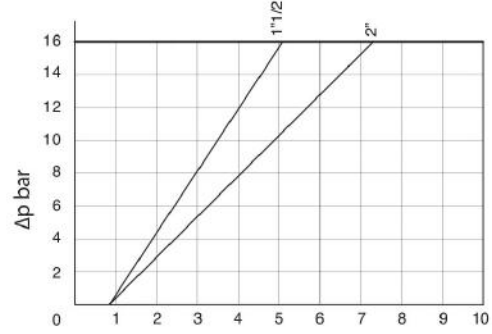


diagramma 14
 diagram 14
testa head
Ø63

Pressione di comando
 Control pressure bar

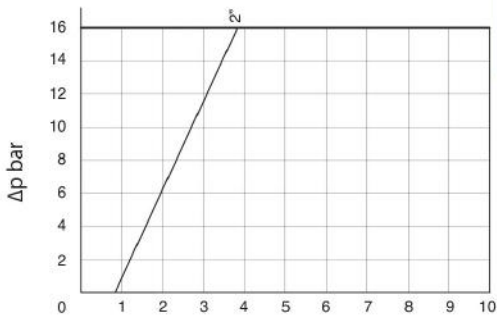
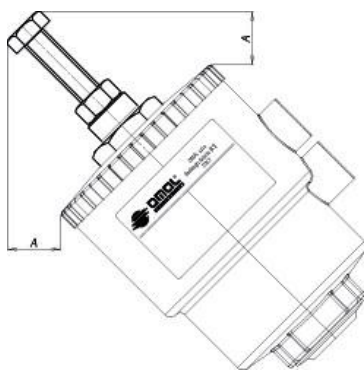


diagramma 15
 diagram 15
testa head
Ø90

Pressione di comando
 Control pressure bar

Accessories

Stroke limiter

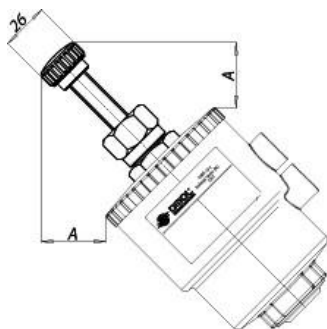


It allows to limit the plug run in opening phase, therefore it regulates the flow.

Available on all versions. In spring return normally open version it can be used as an emergency control

| Control | A mm |
|---------|------|
| Ø 50 | 25,5 |
| Ø 63 | 21,5 |
| Ø 90 | 5,2 |
| Ø 110 | 5,9 |

Emergency manual override

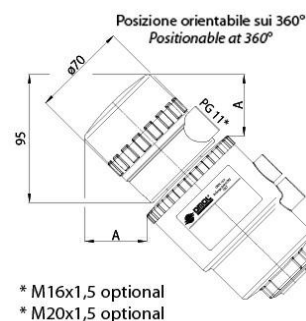


It allows to open the valve in emergency cases (lack of pilot fluid, machinery damaged, lack of piloting signal)

It is available on all normally closed valves.

| Control | A mm |
|---------|------|
| Ø 50 | 35,8 |
| Ø 63 | 35,8 |
| Ø 90 | 29,5 |
| Ø 110 | 29,5 |

Limit switch box



The control box to check the open/close positions with two mechanical limit switches is suitable for assembling on all the range of valves with actuators Ø50 - Ø63 - Ø90 - Ø110.

The terminals to connect the solenoid valve and the visual indicators provided with led are optional.

Level of protection: IP 65.

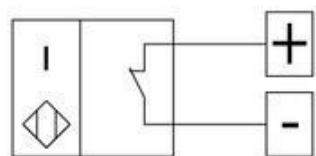
Room temperature: from -20°C to $+70^{\circ}\text{C}$.

Access lead nr. 2 PG11.

Body material: polyamide (cap in polymethacrylate).

| Control | A mm |
|---------|------|
| Ø 50 | 52,1 |
| Ø 63 | 47,5 |
| Ø 90 | 37,7 |
| Ø 110 | 29,5 |

Inductive limit switches NAMUR EExia



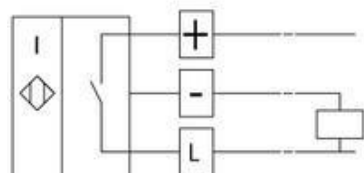
Nominal voltage: 8 Vdc

Consumes: working $\leq 1\text{mA}$; resting $\geq 3\text{mA}$

Working temperature: from -20°C to $+100^{\circ}\text{C}$

| Configuration | Code |
|---|-----------|
| 1 Limit switch at the top: open valve | KSIN9A0XX |
| 1 Limit switch at the bottom: close valve | KSIN9C0XX |
| 2 Limit switch open and close valve | KSIN920XX |

Proximity limit switches



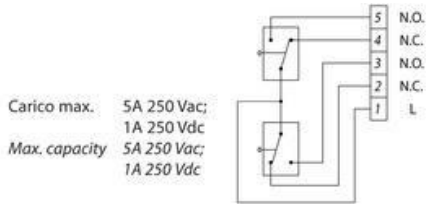
Nominal voltage: $10\div 30\text{Vdc}$

Consumes: 15mA;

Working temperature: from -20°C to $+70^{\circ}\text{C}$

| Configuration | Code |
|---|-----------|
| 1 Limit switch at the top: open valve | KSIO9A0XX |
| 1 Limit switch at the bottom: close valve | KSIO9C0XX |
| 2 Limit switch open and close valve | KSIO920XX |

Mechanical limit switches



Carico max. 5A 250 Vac;
1A 250 Vdc
Max. capacity 5A 250 Vac;
1A 250 Vdc

Limit switch at the bottom: close valve
Limit switch at the top: open valve

| Configuration | Code |
|----------------|-----------|
| 2 limit switch | KSM0C20XX |

Control solenoid valve

Electro-pilot 3/2 for direct assembling.

Body and reel positionable at 360°.

Standard manual control.

Solenoid valve (NAMUR) sets for selection between function 5/3 or 3/2, achievable by rotating the interconnecting plate to 180°.

Room temperature: from -10 °c to +50 °C.

| | | | | | |
|---|----------|----------|----------|----------|----------|
| Voltage | 24 Vac | 115 Vac | 230 Vac | 12 Vdc | 24 Vdc |
| Electropilot | EP415024 | EP415110 | EP415220 | EP412010 | EP412024 |
| Voltage | 24 Vac | 115 Vac | 230 Vac | 12 Vdc | 24 Vdc |
| NAMUR solenoid valve* | ER8188A2 | ER8188A4 | ER8188A5 | ER8188C1 | ER8188C2 |
| NAMUR interface | KBNJ0001 | | | | |
| * To be used only with NAMUR interface only | | | | | |